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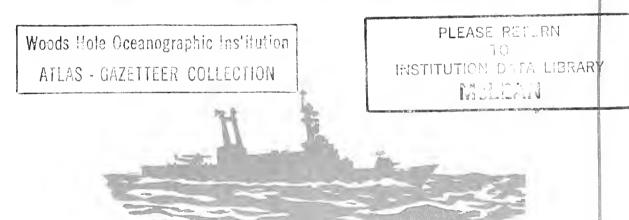


COAST GUARD

OCEANOGRAPHIC OBSERVATIONS

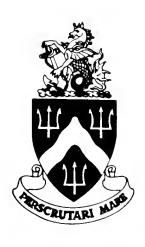
NORTH ATLANTIC OCEAN STATION DELTA

27 August 1967 - 25 August 1968





OCEANOGRAPHIC REPORT No. CG 373-58



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27 August 1967 - 25 August 1968

R. E. Hammond



United States Coast Guard Oceanographic Unit Washington, D.C.



USCGC COOK INLET, a 311 Ft. High Endurance Cutter.

ABSTRACT

The observed and interpolated temperature and salinity data plus the computed sigma-t, geopotential anomalies, and sound velocities are presented for 202 oceanographic stations occupied during thirteen Coast Guard cruises to Ocean Station DELTA (centered at 44°00′N, 41°00′W) between 27 August 1967 and 25 August 1968. The surface layer (300 m) at OS DELTA is characterized by a complex structure because of the proximity of the North Atlantic Current and seasonal atmospheric variations.

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OCEANOGRAPHIC OBSERVATIONS NORTH ATLANTIC OCEAN STATION DELTA

27 AUGUST 1967-25 AUGUST 1968

bv ROBERT E. HAMMOND¹

INTRODUCTION

Initial Coast Guard investigations on Ocean Station DELTA (OS DELTA), located at 44°00'N, 41°00'W, began during a one month cruise in April 1963 aboard the USCGC CASCO. Eighty oceanographic stations were taken to determine the spatial or temporal variations of temperature and salinity in the upper 800 meters. McGary and Morse (1964) concluded that the boundaries of several distinct water masses occur near OS DELTA and lead to large horizontal gradients in temperature and salinity distribution.

Experiments were conducted during five threeweek cruises by the U.S. Naval Oceanographic Office (June 1962-July 1963) to determine the vertical and horizontal variability of water properties in the immediate vicinity of OS DELTA. Analyses of these data were presented by Corton (1967) in which the water masses at OS DELTA were described as: (1) the surface water mass of Gulf Stream origin which varies in thickness from 475 meters to 800 meters, (2) an intermediate water mass of cold water of subarctic origin (with a small percentage of Mediterranean Water between 800 meters and 1000 meters) which extends to a depth of approximately 1750 meters, (3) a deep mass of North Atlantic Deep Water between 1750 meters and 2750 meters, and (4) a bottom water mass below 2750 meters, distinctive of Newfoundland Basin Water (2.3°-3.0°C, 34.90%-34.96%).

The U.S. Coast Guard initiated a continuing series of oceanographic observations at OS DELTA in July 1966. Due to a limited number of deep sea reversing thermometers, these obser-

vations were restricted to alternate three-week

cruises during the first twelve months. Husby (1969) reported on the data obtained from 136 oceanographic stations during the period from July 1966 to August 1967; he pointed out significant fluctuations in temperature and salinity caused by changes in the North Atlantic Current near OS DELTA.

This report describes conditions based on 202 oceanographic stations at OS DELTA from 27 August 1967 to 25 August 1968. A summary of oceanographic operations during that period is presented in Table 1. Nansen casts were taken daily during the occupation of OS DELTA unless terminated by weather or other mission responsibilities. In addition, casts using a salinity-temperature-depth sensor system (STD) were conducted on OS DELTA for the first time (6 July to 9 July 1968) by USCGC HAMILTON.

SAMPLING TECHNIQUES

The location of OS DELTA in relation to the other ocean stations of the world and Standard Section A-3 is shown in figure 1. The bathymetry in the vicinity of OS DELTA is shown in figure 2.

Ocean station vessels attempt to maintain their position within a ten mile square centered on the ocean station, although extenuating circumstances occasionally prevent this. The station position sheets (figs. 3-15) indicate those stations occupied outside the ten mile square.

The sampling program at OS DELTA consisted of daily Nansen bottle casts to a depth of 1,500 m when weather and other operations permitted. The desired sampling depths were surface, 25 m, 50 m, 75 m, 100 m, 150 m, 200 m, 300 m, 400 m, 500 m; 600 m, 800 m, 1,000 m, and 1,500 m. However, the first three cruises during the period covered in this report did not sample at

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Table 1.—Summary of oceanographic operations on Ocean Station.

DELTA, August 1967-August 1968

Vessel	Dates	Cast Shallow	s Deep	Average Max. Sampling Depth Shallow Cast	Range of Max Sampling De Shallow Cast	imum epth Deep Cast	NODC Ref. Number	Appendix A Table Number
USCGC INGHAM	8/27-9/16/67	18	1	1501m	1144–1866m	3321m	31-1158	I
USCGC CHINCOTEAGUE	9/22-10/10/67	14		1462m	997–1621m	_	31-1171	11
USCGC ESCANABA	10/12/-11/03/67	22	1	1383m	883-1862m	4556m	31-1176	III
USCGC OWASCO	11/30-12/15/67	10	1	1343m	992–1671m	4621m	31-1184	IV
USCGC ABSECON	1/13-1/30/68	6	1	1500m	1115–1885m	4262m	31-1202	V
USCGC CASCO	2/28-3/19/68	17	2	1475m	1100–1660m	4324m 3902m	31-1210	VI
USCGC ABSECON	3/20-4/8/68	9	_	1392m	1172-1604m	_	31-1238	VII
USCGC COOK INLET	4/14-5/5/68	17	2	1572m	1368–1675m	4454m 4622m	31-1241	VIII
USCGC DALLAS	5/6-5/28/68	22	1	1482m	1253–1914m	4190m	31-1265	IX
USCGC CASTLE ROCK	5/31-6/19/68	18	1	1474m	660–1786m	4446m	31-1269	X
USCGC HAMILTON	7/6-7/9/68	13	_	1500m	1500m	_	31-8042	XI
USCGC DALLAS	7/13-8/4/68	22	1	1417m	1283-1613m	4590m	31-1339	XII
USCGC COOK INLET	8/5-8/25/68	14	1	1511m	1478–1652m	4211m	31-1316	XIII

75 m; instead they included a 1,250 m sample. For deep casts, the desired depths were 2,000 m, 2,500 m, 3,000 m, 3,500 m, 4,000 m, and 150 m and 50 m off the bottom. Attempts were made to complete at least one deep cast during each patrol.

A pair of protected deep sea reversing thermometers was fitted on each Nansen bottle. Four or five bottles at 200 m and below were each fitted with an unprotected thermometer for the thermometric determination of the sampling depths. Field observations of temperature were transmitted via radioteletype to the Coast Guard Oceanographic Unit for real time data processing and quality control. The reductions to *in situ* temperatures were accomplished with the use of a Digital Equipment Corporation PDP-5 computer.

Salinity samples were drawn from each Nansen bottle, and salinity values were determined at sea using an inductive salinometer. Duplicate samples were drawn from the top and bottom bottles of each cast and were analyzed by the Oceanographic Unit for quality control.

Processed temperature and salinity data for

each cruise were submitted to the National Oceanographic Data Center (NODC), Washington, D.C. The interpolated temperatures, salinities, sigma-t values, geopotential anomalies, and sound velocities for the standard depths were computed by NODC and are listed in Tables I through XIII of Appendix A.

ANALYSIS OF DATA

OS DELTA provides an opportunity to investigate the surface (600 m) effects of a shifting current regime which separates the Subarctic Water mass to the north and the North Atlantic Central Water mass to the south. Prior to discussion of this system, a brief description of the influencing current and water masses is provided.

Northern Gulf Stream Extension

Just off the Tail of the Banks (43°N, 51°W) the eastward flowing Gulf Stream develops large fluctuations in stream position as it migrates northeastward. Iselin (1936) defined these fluctuations as an extension of the Gulf Stream called

the North Atlantic Current. He traced the position of the current by examining the 10°C isothermal surface (fig. 16). The steep gradients east of 50°W define the North Atlantic Current.

Dietrich (1964) continued this analysis and called the geographic location of the 10°C isotherm at 200 m the North Atlantic Current boundary (Polar Front). This boundary separates cold, low-saline, subpolar water and warm, high-saline, subtropical water. The variations in the position of the front are shown in figure 17 (Dietrich, 1964). Fluctuations of the North Atlantic Current as determined by maximum cross current temperature gradients are shown in figure 18 (Fuglister and Worthington, 1951).

Information provided by Boisvert (1967) indicates that the North Atlantic Current is a rather sluggish and slow moving regime (<1.0 kt) subject to the effects of shallow, wind driven surface movement known as North Atlantic Drift (Stommel, 1966).

Due to wide seasonal variations and the limited amount of available data for the North Atlantic Current, exact limits of temperature and salinity distribution cannot be clearly described. However, Corton (1967) indicates that a high salinity core (35.6‰-36.2‰) exists at approximately 100 m. Temperatures at this depth vary between 16° and 17°C (Pub. No. 700, 1967).

Contributing Water Masses

The North Atlantic Current provides a dynamic boundary between two distinct water masses which are displaced and positioned along this boundary as a function of the current velocity and shape of developing meanders. The predominant water mass to the south has been designated North Atlantic Central Water (NACW) (4°-17°C,

35.10%-36.29%) (Sverdrup, et al. 1942, Defant, 1961). Corton (1967) has estimated this water to extend from the surface to approximately 600 m in the vicinity of OS DELTA. Subarctic Water (3°-5°C, 34.7%-34.9%) to the north of this boundary is the dominant water mass from the surface to 1,750 m (Corton, 1967). However the observed characteristics at OS DELTA (8°-23°C, 35.10%-36.70%) indicate a regime whose physical properties are, at times, influenced by the North Atlantic Current. This influence was especially noticeable during the summer months when the wind mixed layer was at a minimum thickness.

The intermediate water at OS DELTA (600–1,750 m) was formed by the mixing of Subarctic Water with the more saline water transported by a northwestern fan of the Mediterranean effluent. The lower limit of this intermediate water mass can be identified by a salinity of 34.92‰ and has been estimated to be at a depth of 1,750 m in the vicinity of OS DELTA (Corton, 1967).

Table 2 summarizes and compares the various water masses found in the vicinity of OS DELTA. T-S diagrams of the data collected at OS DELTA emphasize these water masses and point out the effects of seasonal variation (figs. 19–23).

Seasonal Variations

The observations made at OS DELTA indicated the existence of a seasonal upper layer separated from the non-seasonal layer at about 300 m as can be seen from the vertical distribution of temperature (figs. 26–38). A permanent thermocline (approximately 1.5° C/100 m) existed from a depth of 300 m to 800 m. The temperature then decreased from 6°C at 800 m through the

Table 2.—Description of water masses in the vicinity of Ocean Station DELTA.

Water Type	$\begin{array}{c} \textbf{Temperature Range} \\ (^{\circ}\textbf{C}) \end{array}$	Salinity Range	
Subarctic*	3–5	34.7-34.9	
North Atlantic Central*	4–17	35.1–36.3	
North Atlantic Deep*	3–4	34.9–35.0	
North Atlantic Bottom*	1-3	34.8–34.9	
OSD upper 800 m**	8–19	35.1–36.7	

^{*}According to Defant (1961, Table 83)

^{**}From observed data

intermediate water mass to $4^{\circ}C \pm 0.3$ C°. A seasonal isothermal layer was present from late October through early May (figs. 28–33), with a maximum depth of 300 m observed in early March. This isothermal feature was caused by the erosion and deepening of the seasonal thermocline which was influenced by increased convection due to cooling temperatures and wind mixing. A time-series plot is presented in figure 24 in support of the discussions of temporal variations in temperature.

The upper seasonal layer displayed maximum surface temperatures and stratification during the autumnal equinox; the minimum temperatures and the deepest thermocline erosion (isothermal layer) coincided with the vernal equinox.

The salinity structure (fig. 25) of the upper seasonal zone followed a trend similar to that of the temperature. An isohaline layer developed in December, with a maximum depth of 300 m occurring in early March, and was followed by the establishment of a halocline in May. This seasonal halocline blended into the permanent halocline which extended down to about 700 m. The intermediate water (600–1,750 m) maintained a nearly constant salinity range of 34.92% –35.00%.

The vertical distribution of salinity for each cruise is shown in figures 39–51. The salinity maximum located at 100 m from August to December (figs. 39–42, 51 and Table 3) may have been an intrusion of the North Atlantic Current. The greater mixing forces that occurred during the months from January to May eroded this prominent feature into an isohaline layer (to

approximately 300m) with only an occasional maximum at greater depths. This seems to indicate that the mixing processes were of sufficient magnitude to destroy any changes that could be brought about by intrusions from the North Atlantic Current.

Table 3 summarizes the variations of the predominant characteristics of salinity in the upper 800 m at OS DELTA.

Description of Observed Processes

Observations made in a limited geographical area over a relatively short period (one year) do not lend themselves to a comprehensive analysis of physical processes. However, it was possible to observe changes in physical properties at OS DELTA due to the variation in position and intensity of the North Atlantic Current.

Comparison of the physical properties of OS DELTA was made with those observed for Standard Section A-3 (SSA3) (Robe, 1971) in an attempt to determine the geographic relation between OS DELTA and the Polar Front. Only three dates were comparable (due to limited observations on the eastern end of SSA3): 4 November 1967, 3 February 1968, and 5 August 1968. During those times the Front was located 255, 285, and 200 nautical miles, respectively, west of OS DELTA.

It would be difficult to make an estimate of the Front's distance to the north of OS DELTA, due to a lack of data in that direction. However, at no time did the observed water characteristics indicate that the Front had traveled southward through OS DELTA. Passage of the Front or

Table 3.—Summary of the variations of the predominant characteristics of salinity in the upper 800 meters at Ocean Station DELTA, 27 August 1967 to 25 August 1968.

	Surface	Isohaline	Salinity Maxir	Salinity Minimum		
Inclusive	Salinity	Layer	Salinity	Depth	Salinity	Depth
Cast Dates	Range (‰)	Depth (m)	(%)	(m)	(%0)	(m)
8/27-9/16/67	35.09-36.31	NONE	36.54	100	35.00-35.05	700-800
9/22-10/10/67	34.35-36.20	NONE	36.38, 36.39	50, 100	34.72	570
10/12-11/3/67	35.00-36.14	20	36.45	90-120	34.77	540
11/30-12/15/67	35.72-35.90	80	36.32	110	35.00, 35.04	760, 810
1/13-1/30/68	35.87-36.13	200	36.13	0-200	34.97	780
2/28-3/19/68	35.79-36.02	280	36.02, 36.02	0, 300	35.00, 34.97	660, 790
3/20-4/8/68	35.87-36.04	100	36.03, 36.04	0, 40	34.92	670
4/14-5/5/68	35.80-36.19	100	36.17, 36.19	0, 60	34.95, 34.94	660, 770
5/6-5/28/68	35.80-36.11	20-70	36.11, 36.13	0, 50	34.93	670
5/31-6/19/68	35.87-36.13	70-100	36.16	45	34.96	690-800
7/6-7/9/68*	33.26-35.48	NONE	36.22, 36.24	30, 70	33.26	Surface
					34.81	670
7/13-8/4/68	34.36-36.28	NONE	36.36	90	34.66	550
8/5-8/25/68	34.15-36.03	NONE	36.43	75	34.85	610

^{*}Casts during this period were taken for the first time at OSD with an STD

traverse of a large eddy would be marked by a sudden decrease of temperature and salinity due to the influx of Subarctic Water.

The influence of the North Atlantic Current, as it varies in strength and distance from OS DELTA, can be monitored by a change in the physical properties of the water in the vicinity of OS DELTA. Data gathered from stations occupied during the period covered by this report have been investigated for significant temporal variations as an indication of the influence of the North Atlantic Current.

Attention is directed to the USCGC HAM-ILTON cruise of 6-9 July 1968 (figs. 36 and 49) and specifically to stations 5, 9, and 13, separated by intervals of 23.5 and 30.2 hours. Station five showed the reduced influence of North Atlantic Central Water (NACW), possibly due to an increase in intensity and/or a southeast movement of the North Atlantic Current. An apparent return of NACW was registered during occupation of station 13.

Observations made during the cruise of the USCGC INGHAM (figs. 26 and 39) at stations 2,3, and 4 showed temperature and salinity values indicative of NACW. Station 7, four days later, indicated temperature and salinity minima in the upper 800 meters as the Polar Front shifted position towards OS DELTA.

Similar distributions of properties were observed during the September 1967 cruise of USCGC CHINCOTEAGUE (figs. 27 and 40), May 1968 cruise of USCGC DALLAS (figs. 34 and 47), March 1968 cruise of USCGC ABSECON (figs. 32 and 45), and July 1968 cruise of USCGC DALLAS (figs. 37 and 50).

Due to relatively few "off station" casts, little can be evaluated concerning horizontal variations in physical properties. Separations were limited to 70 nautical miles in latitude with corresponding temperature and salinity differences of 1.0°C and 0.5% in the upper 50 m. Variations in temperature and salinity were not observed with longitudinal differences of up to 90 nautical miles.

The physical properties observed at OS DELTA and those of the surrounding water masses can best be compared by examining the observations made at OS DELTA, OS ECHO, OS CHARLIE, and selected stations along SSA3 (fig. 1). Observations at OS CHARLIE describe the water masses peculiar to the subarctic; properties observed at OS ECHO detail NACW characteristics, and observations along SSA3 provide insight into properties unique to the North Atlantic Current.

Comparison of temperature and salinity vertical distributions at the above locations was made for February and August 1968 (figs. 52 and 53).

Data from SSA3 and OS DELTA exhibit isohaline/isothermal layers down to about 100 m during February, with the greater depths displaying similar trends in their distributions. The nearly uniform distribution of Subarctic Water (especially at OS DELTA, OS CHARLIE, and SSA3) below 800 m becomes clear and is supported by the close coincidence of temperature and salinity vertical distributions.

During August, observations at SSA3 and OS DELTA showed similar characteristics of temperature and salinity versus depth, with the formation of definite thermoclines and haloclines down to 100 m. As is typical of subarctic zones, salinity increases slightly with depth at OS DELTA and SSA3, but maximum salinities are observed at the surface of OS ECHO (subtropic location).

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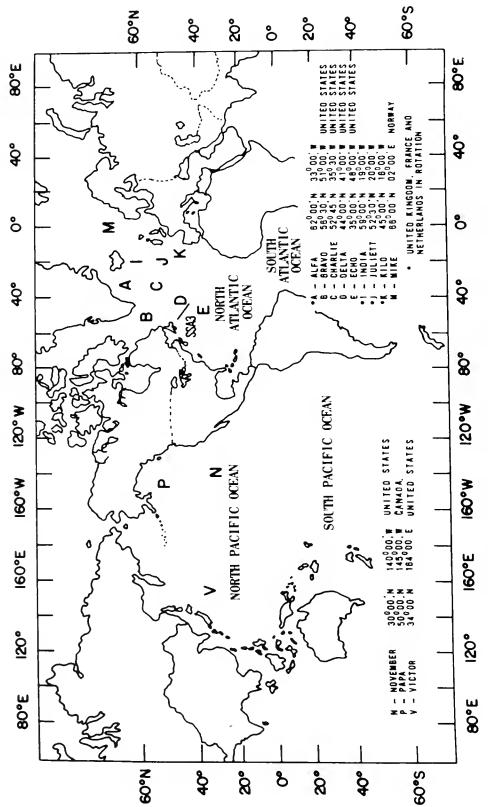
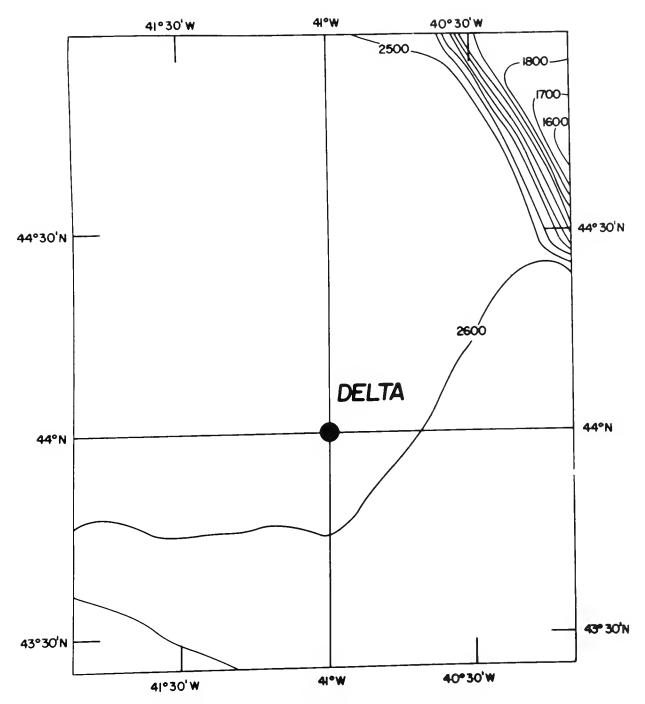


FIGURE 1. Chart of the ocean stations of the world and Standard Section A-3 (SSA3).



 $F_{IGURE}\ 2.\ Bathymetry\ (in\ fathoms)\ of\ Ocean\ Station\ DELTA\ (from\ HO\ chart\ BC0508N).$

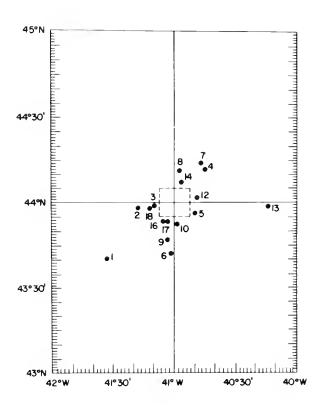


FIGURE 3. Positions of oceanographic stations taken by USCGC INGHAM at Ocean Station DELTA, 27 August-16 September 1967. Stations taken inside the 10-mile-square central grid are not shown.

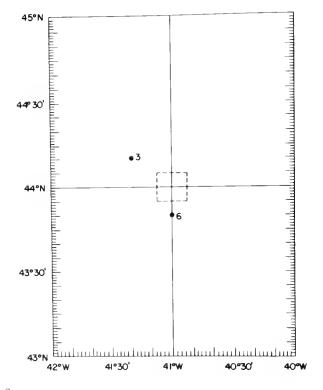


FIGURE 4. Positions of oceanographic stations taken by USCGC CHINCOTEAGUE at Ocean Station DELTA, 22 September-10 October 1967. Stations taken inside the 10-mile-square central grid are not shown.

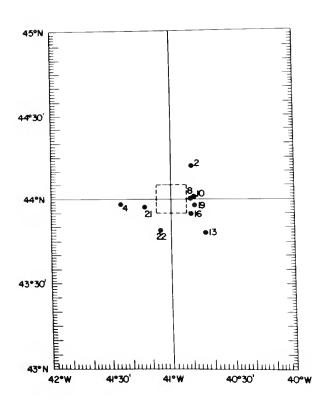


FIGURE 5. Positions of oceanographic stations taken by USCGC ESCANABA at Ocean Station DELTA, 12 October-3 November 1967. Stations taken inside the 10-mile-square central grid are not shown.

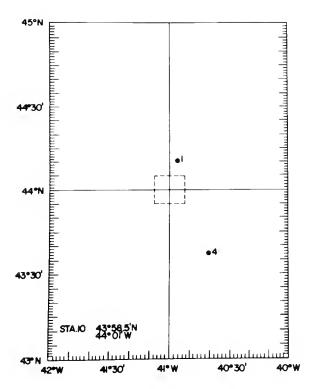


FIGURE 6. Positions of oceanographic stations taken by USCGC OWASCO at Ocean Station DELTA, 30 November-15 December 1967. Stations taken inside the 10-mile-square central grid are not shown.

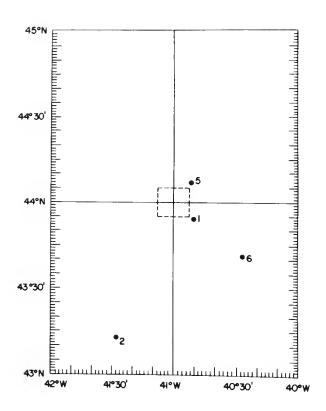


FIGURE 7. Positions of oceanographic stations taken by USCGC ABSECON at Ocean Station DELTA, 13 January-30 January 1968. Stations taken inside the 10-mile-square central grid are not shown.

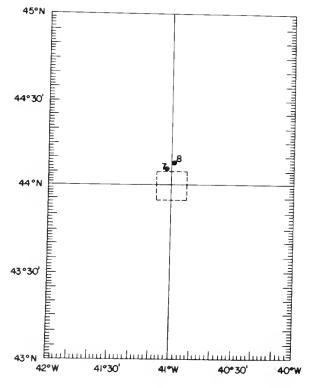


FIGURE 8. Positions of oceanographic stations taken by USCGC CASCO at Ocean Station DELTA, 28 February–19 March 1968. Stations taken inside the 10-mile-square central grid are not shown.

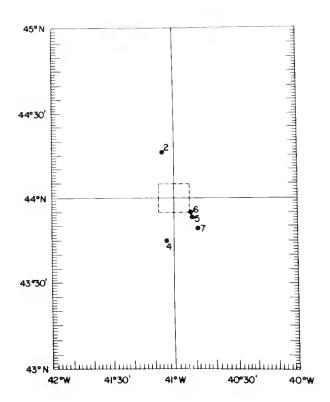


FIGURE 9. Positions of oceanographic stations taken by USCGC ABSECON at Ocean Station DELTA, 20 March-8 April 1968. Stations taken inside the 10-mile-square central grid are not shown.

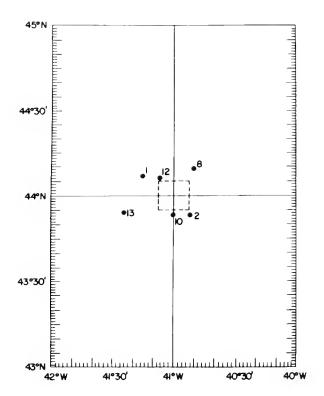


FIGURE 10. Positions of oceanographic stations taken by USCGC COOK INLET at Ocean Station DELTA, 14 April-5 May 1968. Stations taken inside the 10-mile-square central grid are not shown.

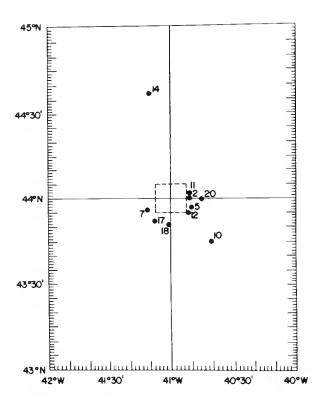


FIGURE 11. Positions of oceanographic stations taken by USCGC DALLAS at Ocean Station DELTA, 6 May-28 May 1968. Stations taken inside the 10-mile-square central grid are not shown.

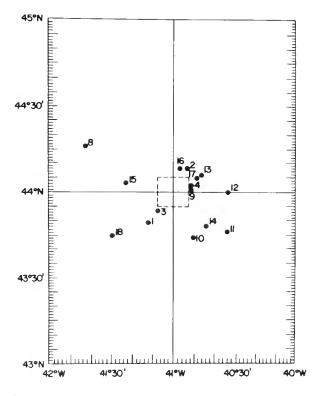


FIGURE 12. Positions of oceanographic stations taken by USCGC CASTLE ROCK at Ocean Station DELTA, 31 May-19 June 1968. Stations taken inside the 10-mile-square central grid are not shown.

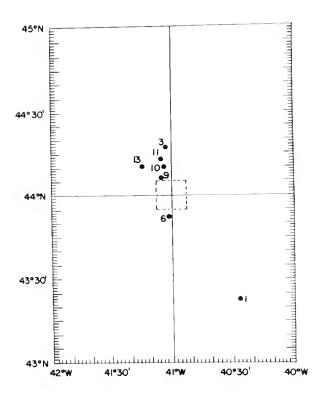


FIGURE 13. Positions of oceanographic stations taken by USCGC HAMILTON at Ocean Station DELTA, 6 July-9 July 1968. Stations taken inside the 10-mile-square central grid are now shown.

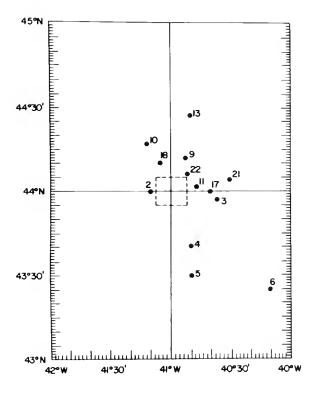


FIGURE 14. Positions of oceanographic stations taken by USCGC DALLAS at Ocean Station DELTA, 13 July-4 August 1968. Stations taken inside the 10-mile-square central grid are not shown.

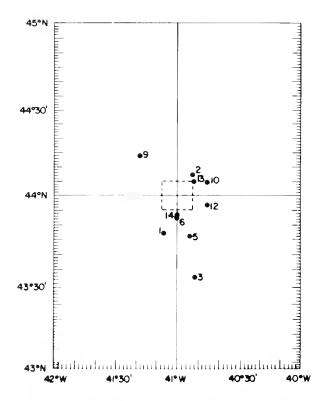


FIGURE 15. Positions of oceanographic stations taken by USCGC COOK INLET at Ocean Station DELTA, 5 August-25 August 1968. Stations taken inside the 10-mile-square central grid are not shown.

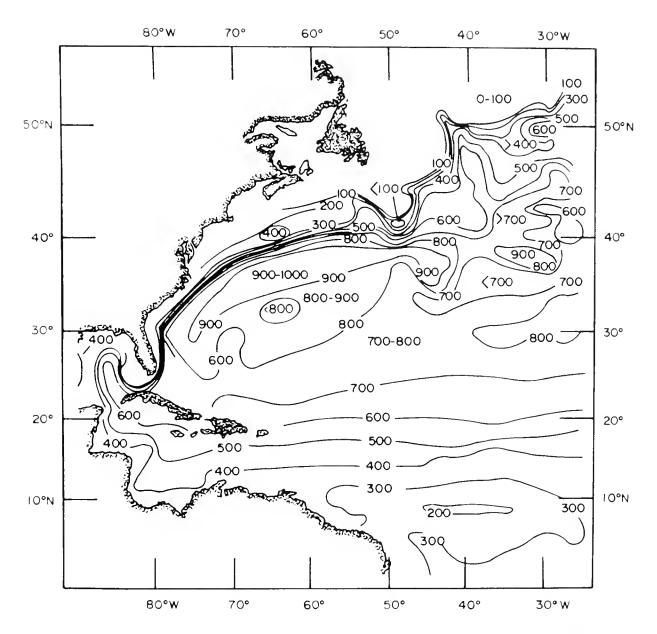


Figure 16. Depth of 10° C isothermal surface, according to Iselin (1936, fig. 47). Depths are given in meters.

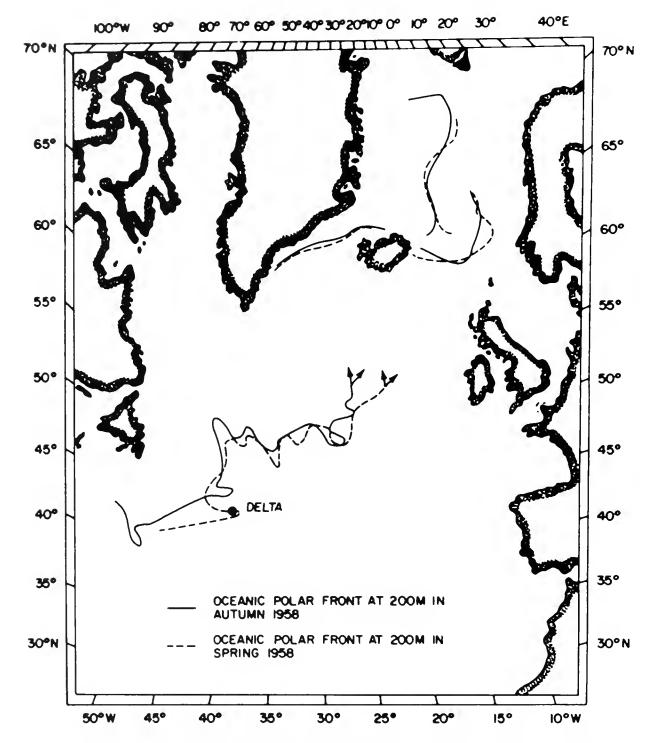


FIGURE 17. The Oceanic Polar Front in the North Atlantic at 200 m depth in autumn and spring 1958, according to Dietrich (1964, fig. 8).

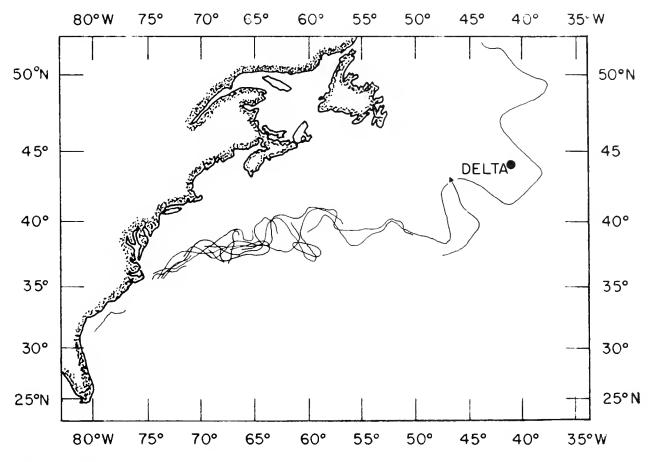


Figure 18. Fluctuations of North Atlantic current as determined by maximum cross current temperature gradients (after Fuglister and Worthington, 1951).

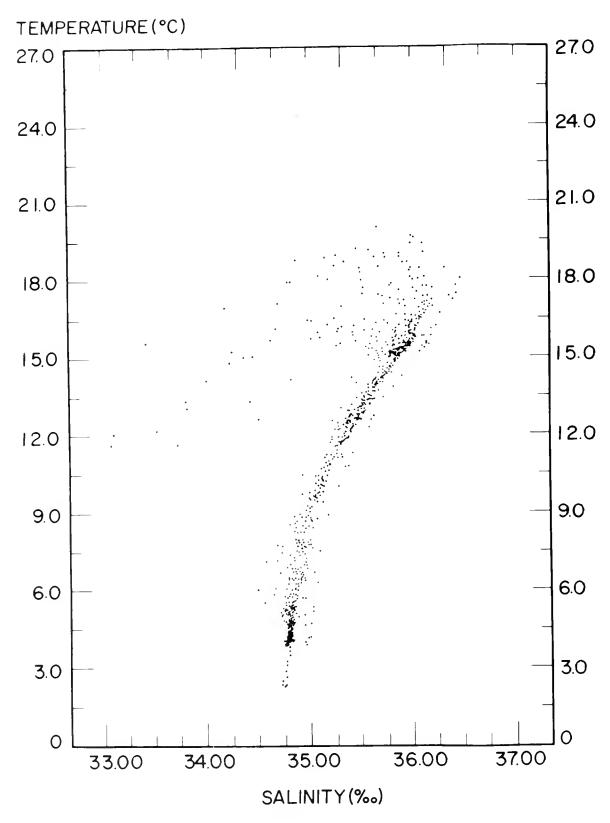


FIGURE 19. Temperature-Salinity diagram at Ocean Station DELTA for period 27 August to 3 November 1967.

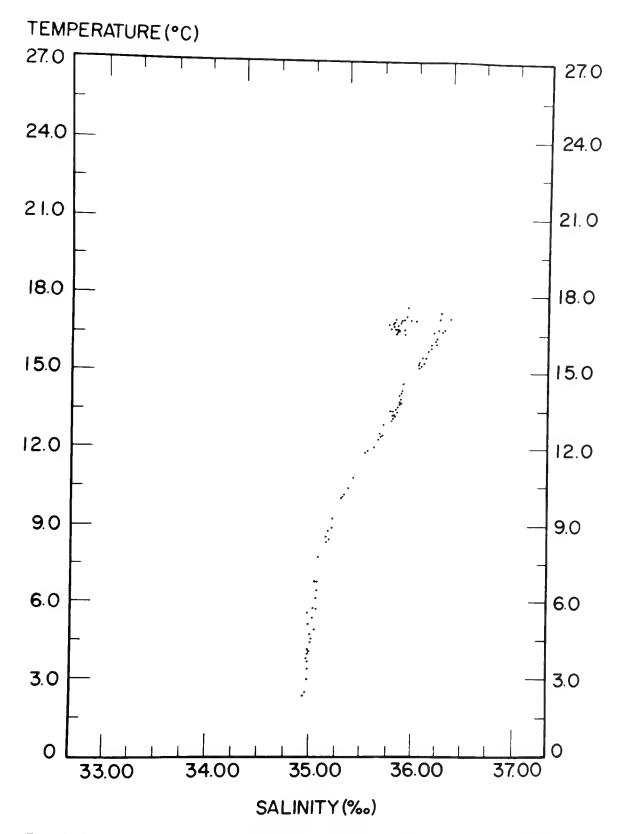


Figure 20. Temperature-Salinity diagram at Ocean Station DELTA for period 30 November to 15 December 1967.

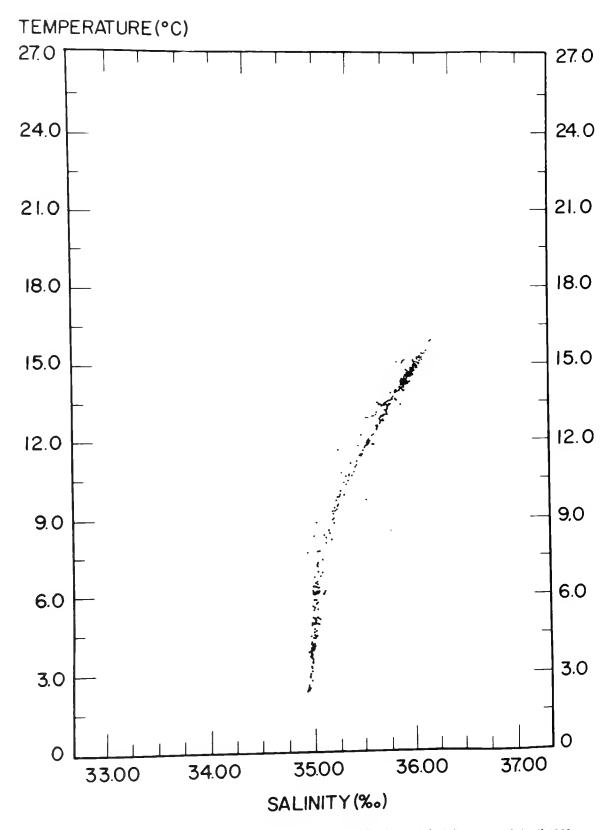


Figure 21. Temperature–Salinity diagram at Ocean Station DELTA for period 13 January to 8 April 1968.

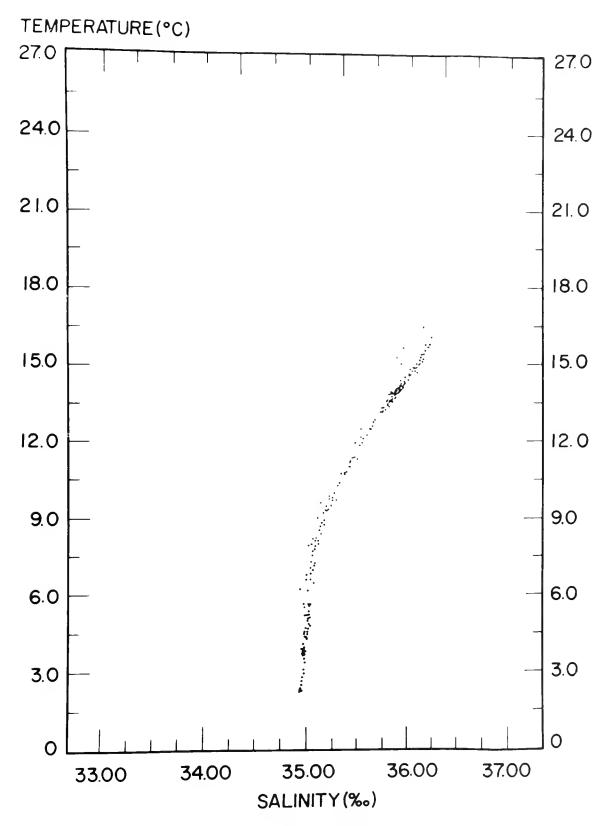


Figure 22. Temperature–Salinity diagram at Ocean Station DELTA for period 14 April to 19 June 1968.

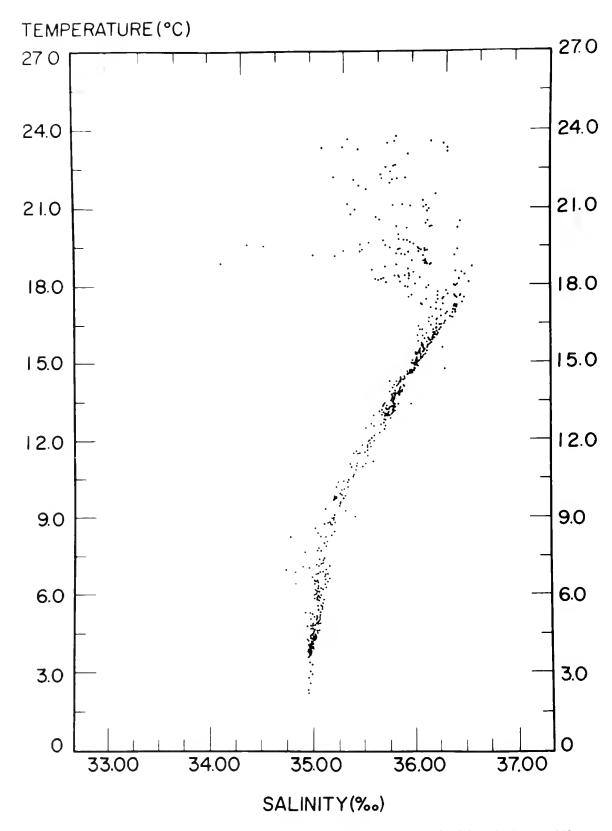


FIGURE 23. Temperature-Salinity diagram at Ocean Station DELTA for period 6 July to 25 August 1968.

WATER TEMPERATURE VERSUS TIME AT OCEAN STATION DELTA 27 AUGUST 1967 - 25 AUGUST 1968

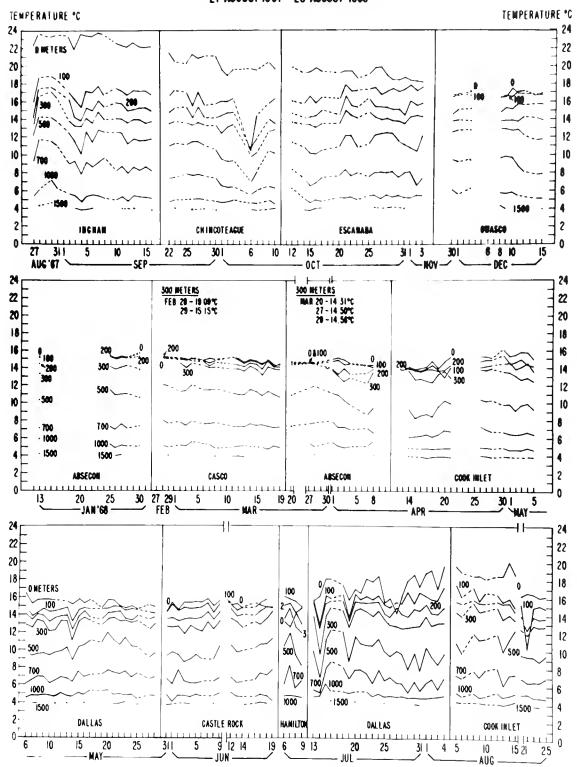


FIGURE 24. Temperature versus time at selected depths at OS DELTA, 27 August 1967 to 25 August 1968.

SALINITY VERSUS TIME AT OCEAN STATION DELTA 27 AUGUST 1967 - 25 AUGUST 1968

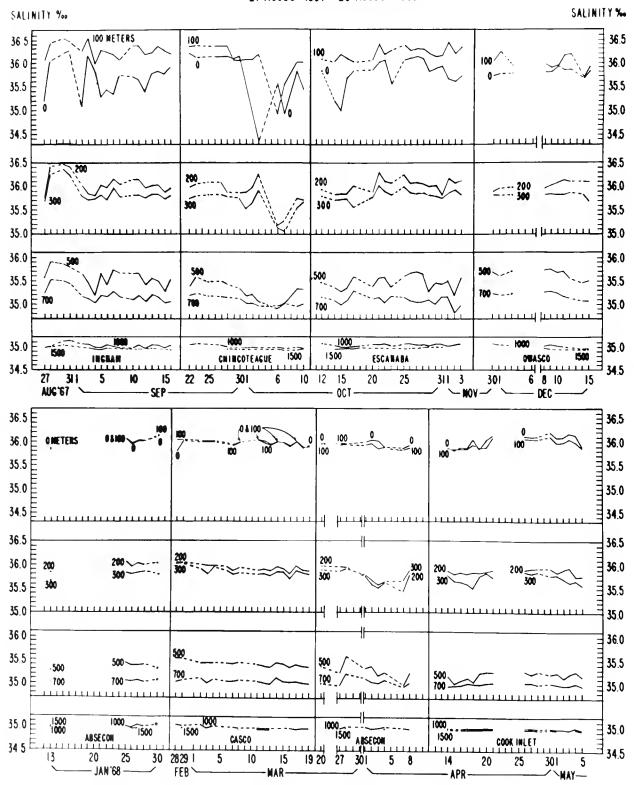


FIGURE 25a. Salinity versus time at selected depths at OS DELTA, 27 August 1967 to 5 May 1968.

SALINITY VERSUS TIME AT OCEAN STATION DELTA (CONT'D) 27 AUGUST 1967 - 25 AUGUST 1968

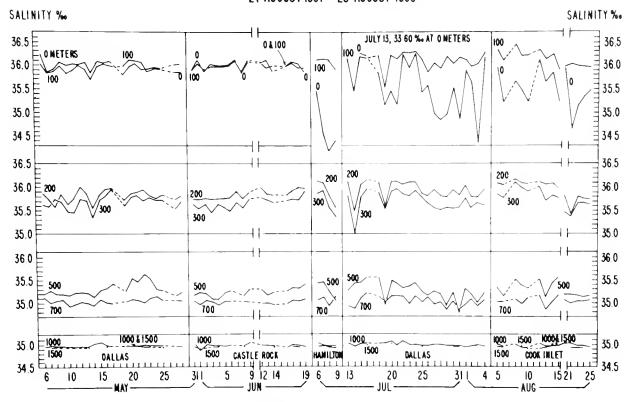
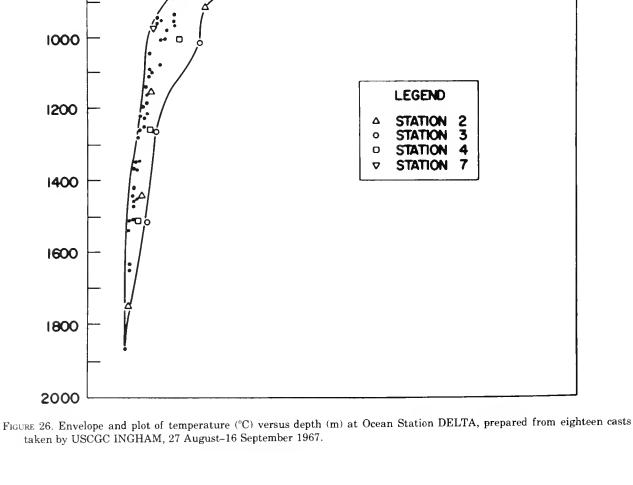


FIGURE 25b. Salinity versus time at selected depths at OS DELTA, 6 May to 25 August 1968.

TEMPERATURE (°C) DEPTH (M) Ю LEGEND



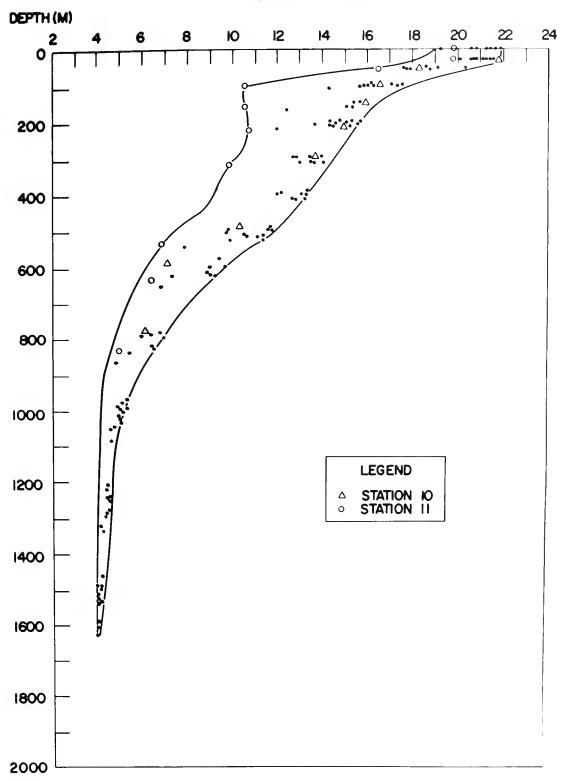
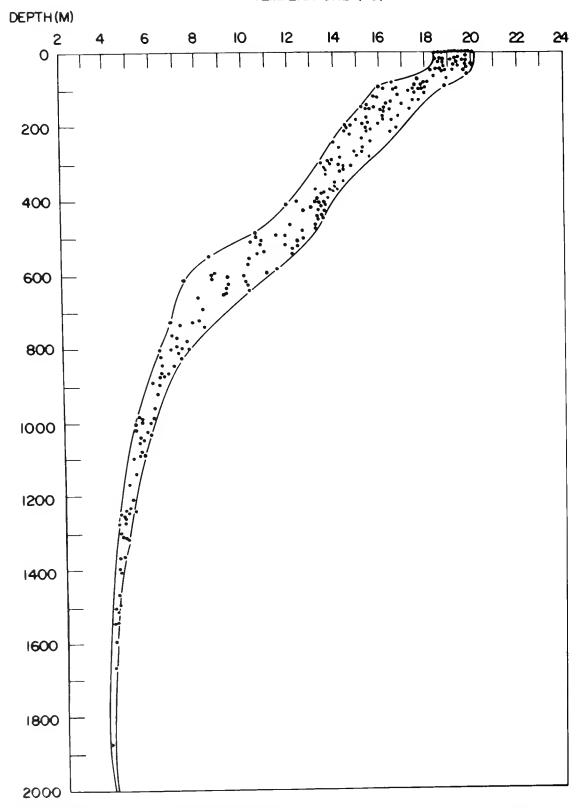


FIGURE 27. Envelope and plot of temperature (°C) versus depth (m) at Ocean Station DELTA, prepared from fourteen casts taken by USCGC CHINCOTEAGUE, 22 September–10 October 1967.



 F_{IGURE} 28. Envelope and temperature (°C) versus depth (m) at Ocean Station DELTA, prepared from twenty-two casts taken by USCGC ESCANABA, 12 October-3 November 1967.

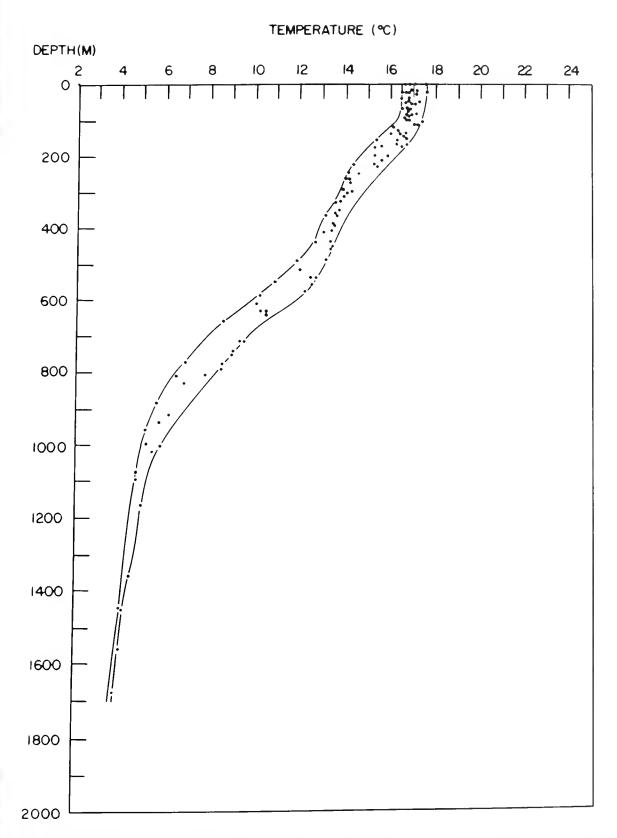
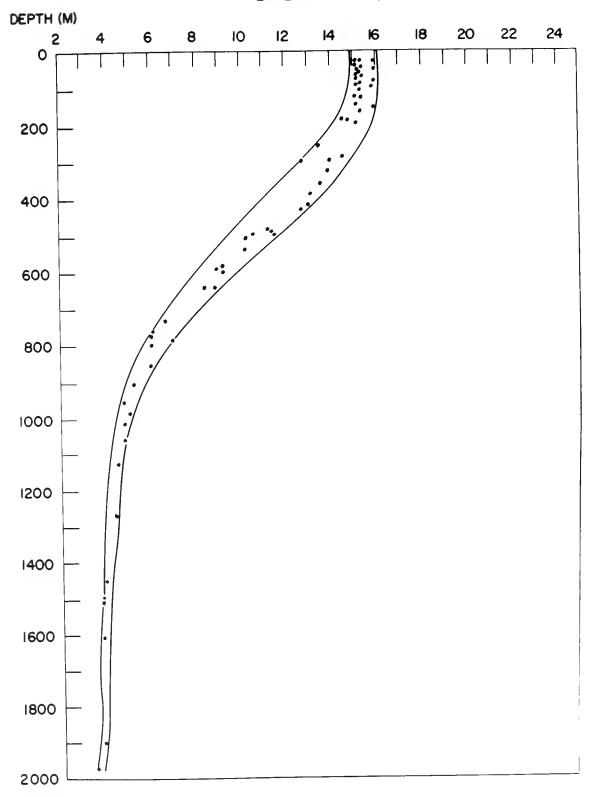


FIGURE 29. Envelope and plot of temperature (°C) versus depth (m) at Ocean Station DELTA, prepared from ten casts taken by USCGC OWASCO, 30 November-15 December 1967.



 $F_{\text{IGURE 30.}} \ Envelope \ and \ plot \ of \ temperature \ (^{\circ}C) \ versus \ depth \ (m) \ at \ Ocean \ Station \ DELTA, \ prepared \ from \ six \ casts \ taken \ by \ USCGC \ ABSECON, 13 \ January-30 \ January 1968.$

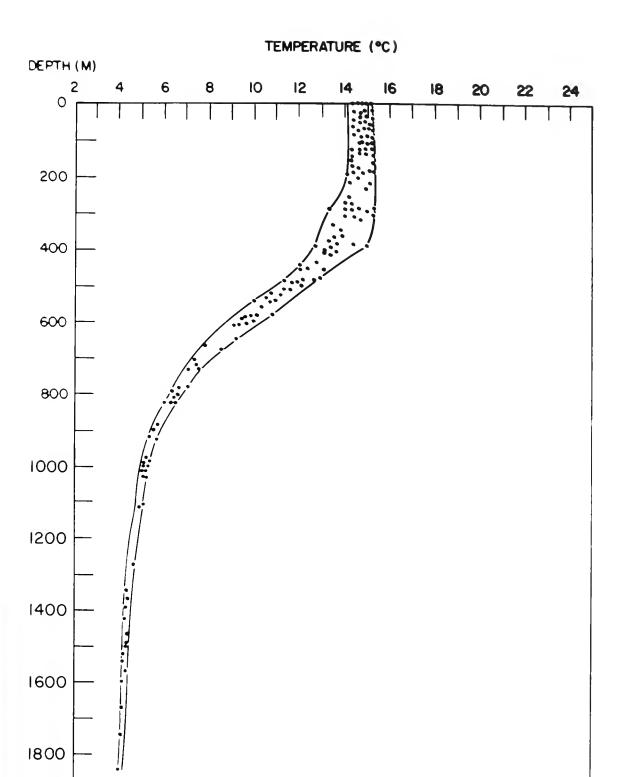
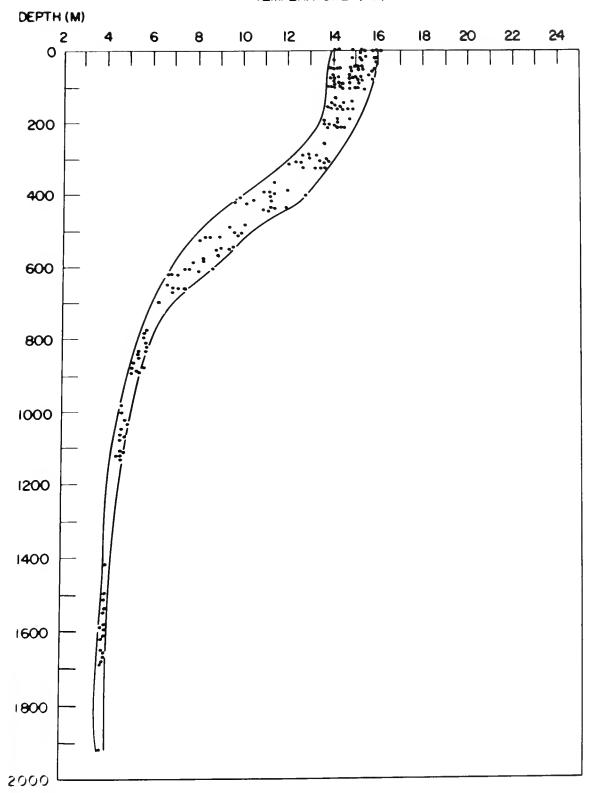


FIGURE 31. Envelope and plot of temperature (°C) versus depth (m) at Ocean Station DELTA, prepared from seventeen casts taken by USCGC CASCO, 28 February-19 March 1968.

TEMPERATURE (°C) DEPTH (M) ю LEGEND Δ **STATION** STATION

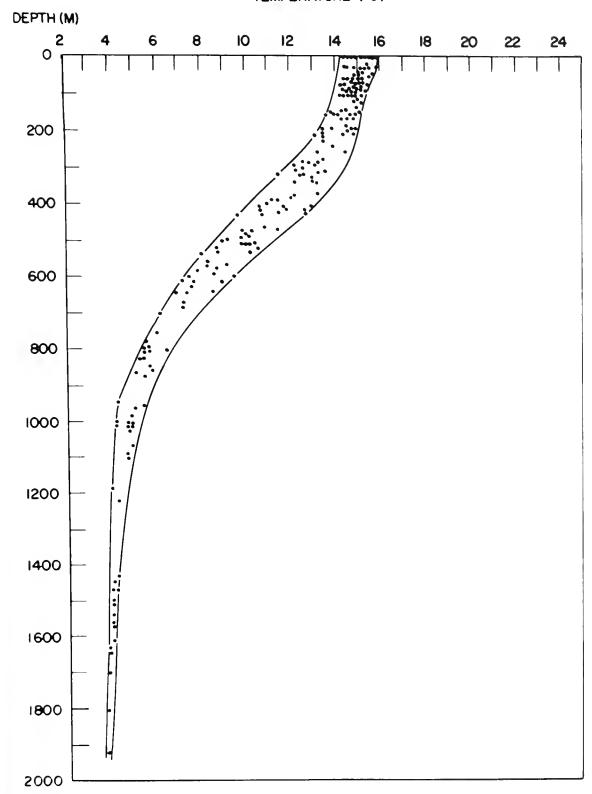
Figure 32. Envelope and plot of temperature (°C) versus depth (m) at Ocean Station DELTA, prepared from nine casts taken by USCGC ABSECON, 20 March-8 April 1968.



 $F_{IGURE~33.~Envelope~and~plot~of~temperature~(^{\circ}C)~versus~depth~(m)~at~Ocean~Station~DELTA,~prepared~from~seventeen~casts~taken~by~USCGC~COOK~INLET,~14~April-5~May~1968.$

TEMPERATURE (°C) DEPTH (M) **LEGEND**

 $F_{\text{IGURE 34.}} \ Envelope \ and \ plot \ of \ temperature \ (^{\circ}C) \ versus \ depth \ (m) \ at \ Ocean \ Station \ DELTA, \ prepared \ from \ twenty-two \ casts taken by USCGC DALLAS, 6 May-28 May 1968.$



 $F_{IGURE}\ 35.\ Envelope\ and\ plot\ of\ temperature\ (^{\circ}C)\ versus\ depth\ (m)\ at\ Ocean\ Station\ DELTA,\ prepared\ from\ eighteen\ casts\ taken\ by\ USCGC\ CASTLE\ ROCK,\ 31\ May-19\ June\ 1968.$

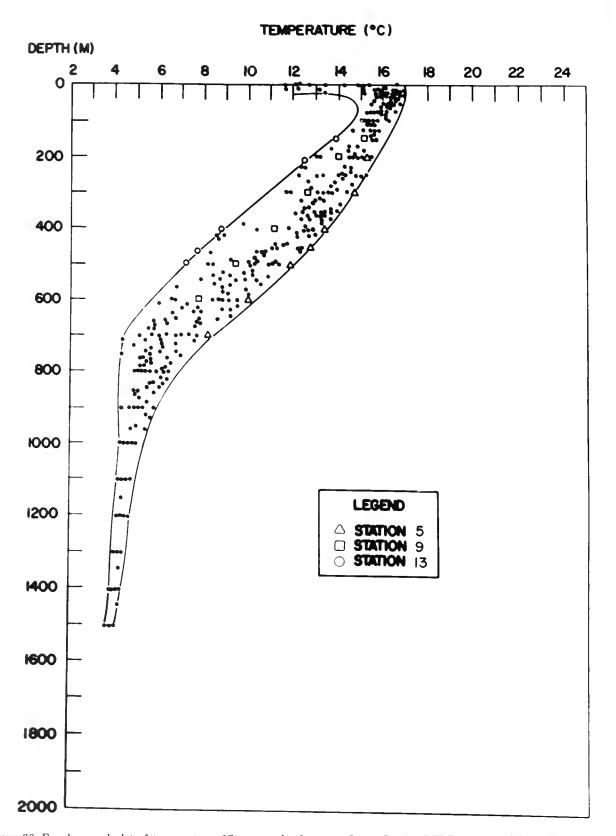


Figure 36. Envelope and plot of temperature (°C) versus depth (m) at Ocean Station DELTA, prepared from thirteen casts taken by USCGC HAMILTON, 6 July-9 July 1968.

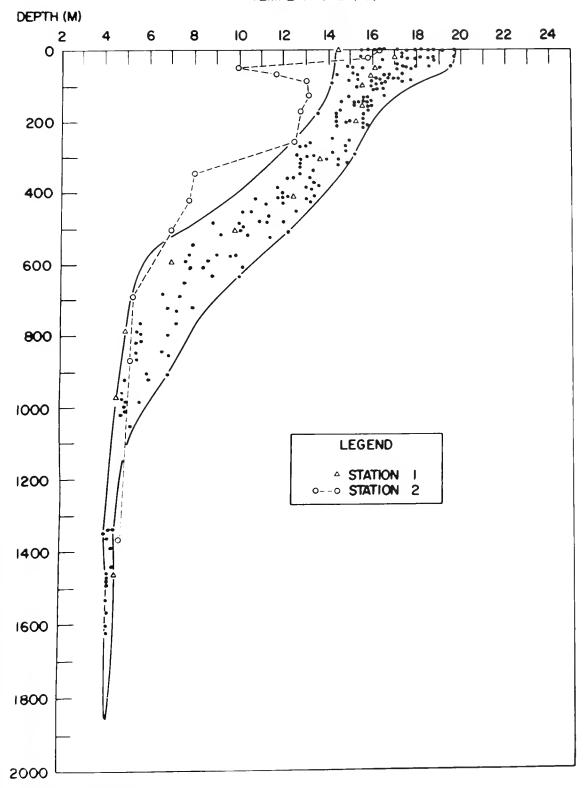


FIGURE 37. Envelope and plot of temperature (°C) versus depth (m) at Ocean Station DELTA, prepared from twenty-two casts taken by USCGC DALLAS, 13 July-4 August 1968. Station number 2 is not included in the envelope due to its variance from the normal.

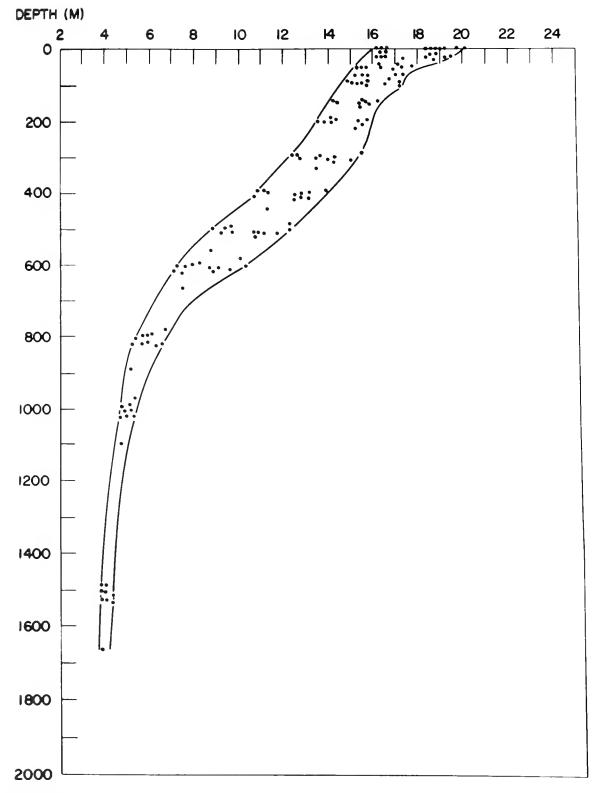


Figure 38. Envelope and plot of temperature (°C) versus depth (m) at Ocean Station DELTA, prepared from fourteen casts taken by USCGC COOK INLET, 5 August-25 August 1968.

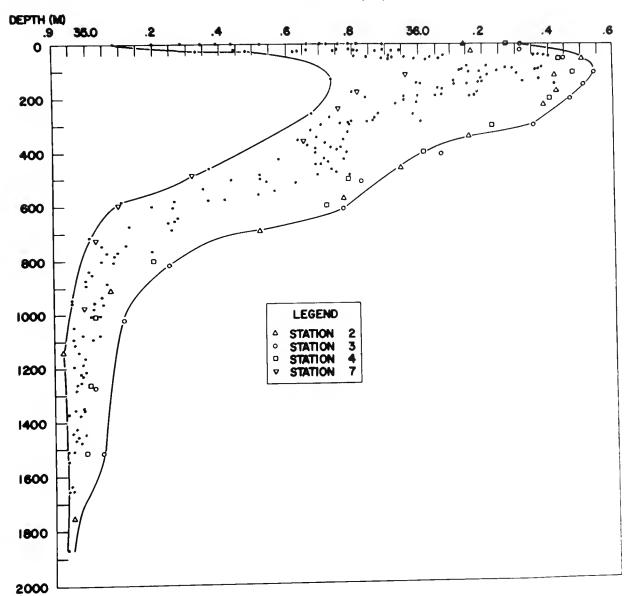


Figure 39. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from eighteen casts taken by USCGC INGHAM, 27 August-16 September 1967.

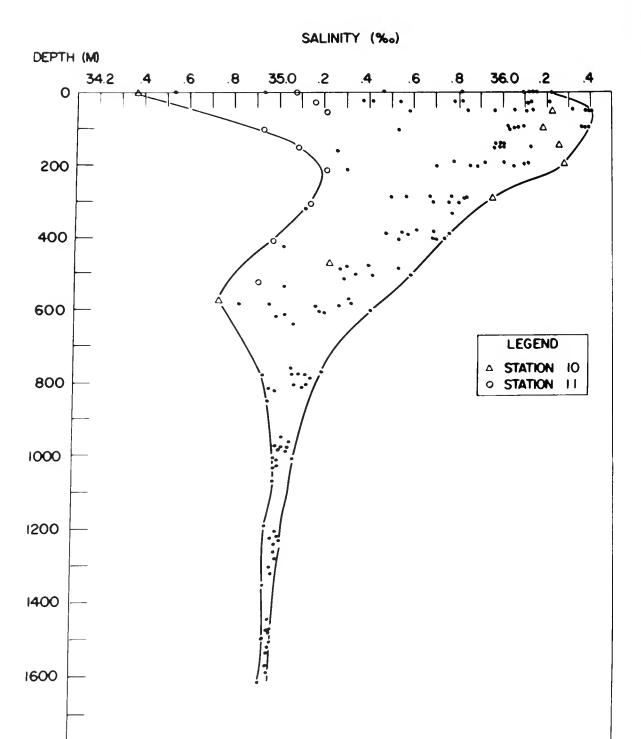


Figure 40. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from fourteen casts taken by USCGC CHINCOTEAGUE, 22 September–10 October 1967.

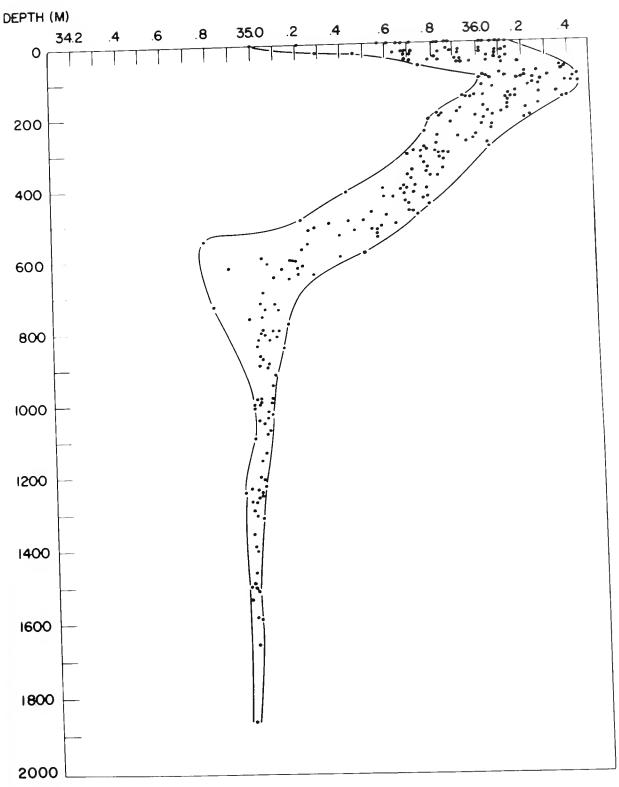


Figure 41. Envelope and plot of salinity (%) versus depth (m) at Ocean Station DELTA, prepared from twenty-two casts taken by USCGC ESCANABA, 12 October-3 November 1967.

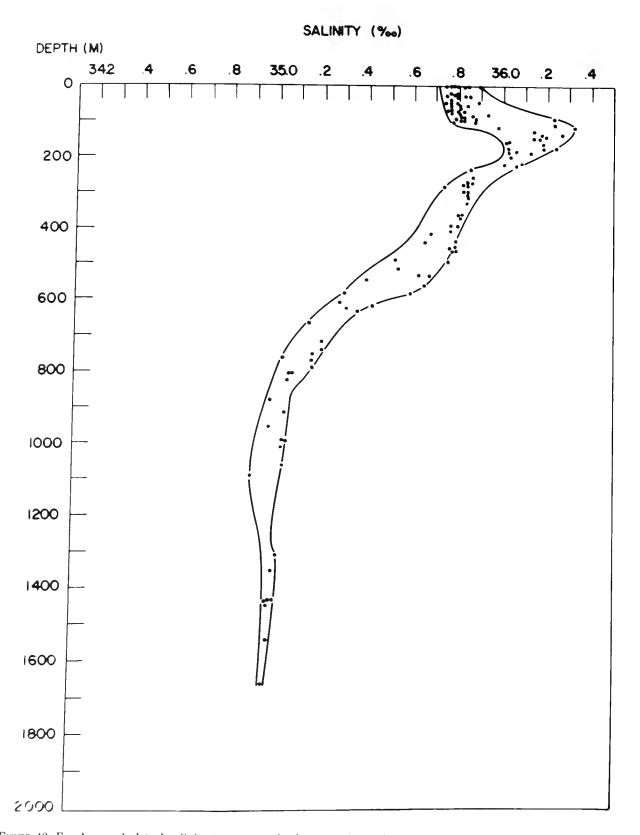


Figure 42. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from ten casts taken by USCGC OWASCO, 30 November-15 December 1967.



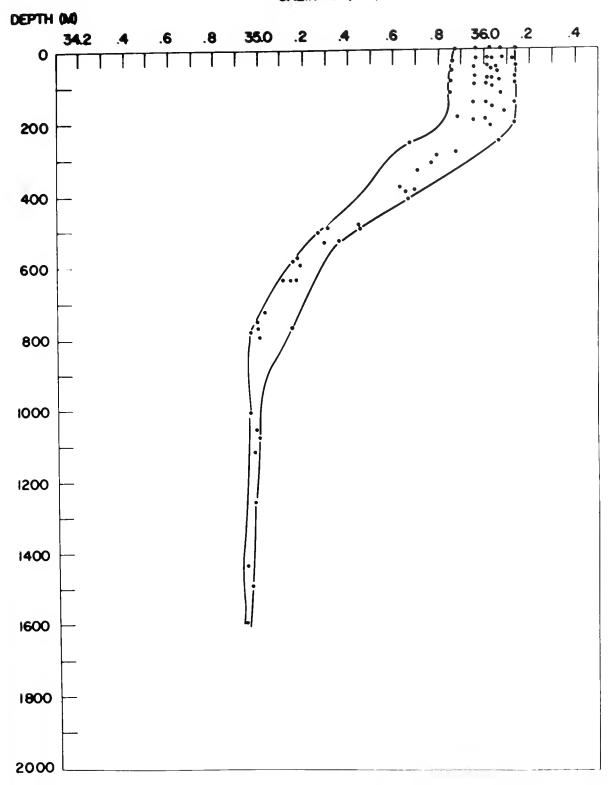


Figure 43. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from six casts taken by USCGC ABSECON, 13 January-30 January 1968.

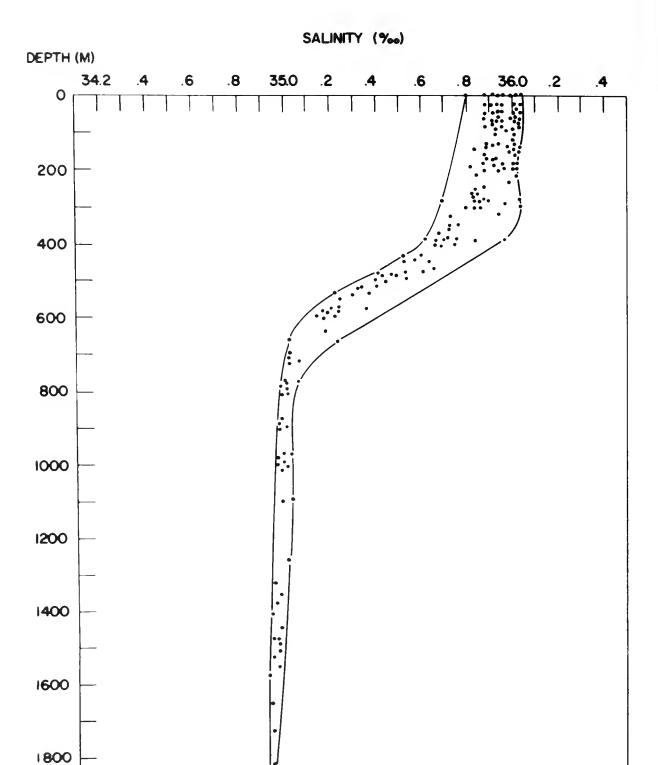


Figure 44. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from seventeen casts taken by USCGC CASCO, 28 February-19 March 1968.

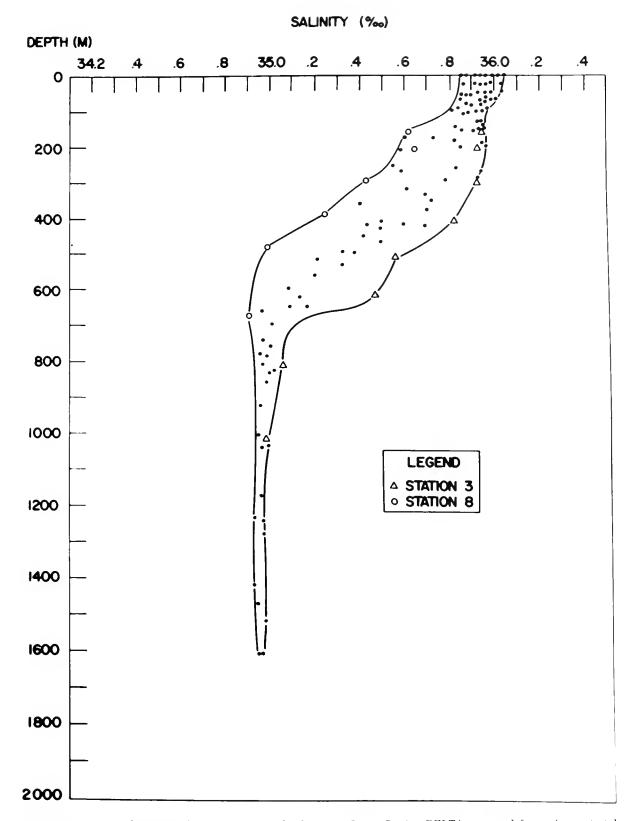


FIGURE 45. Envelope and plot of salinity (%) versus depth (m) at Ocean Station DELTA, prepared from nine casts taken by USCGC ABSECON, 20 March-8 April 1968.

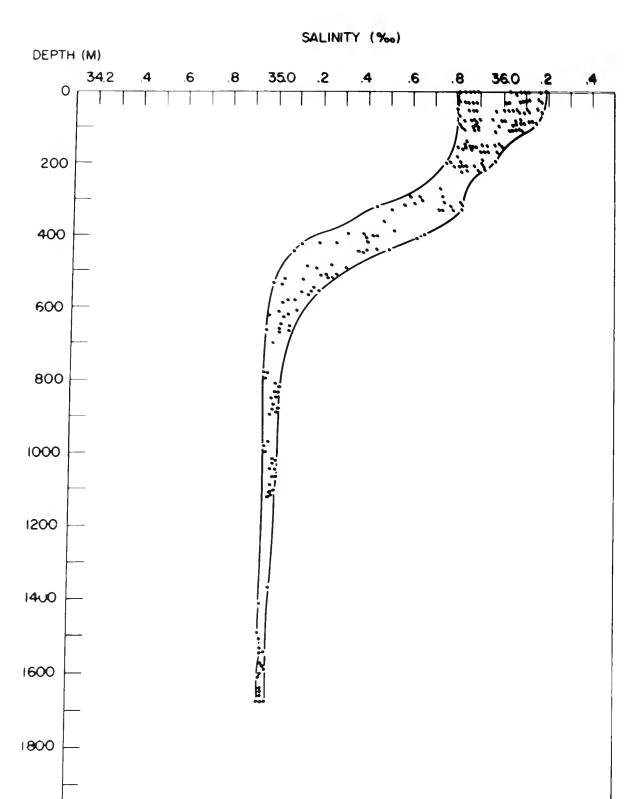


Figure 46. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from seventeen casts taken by USCGC COOK INLET, 14 April-5 May 1968.

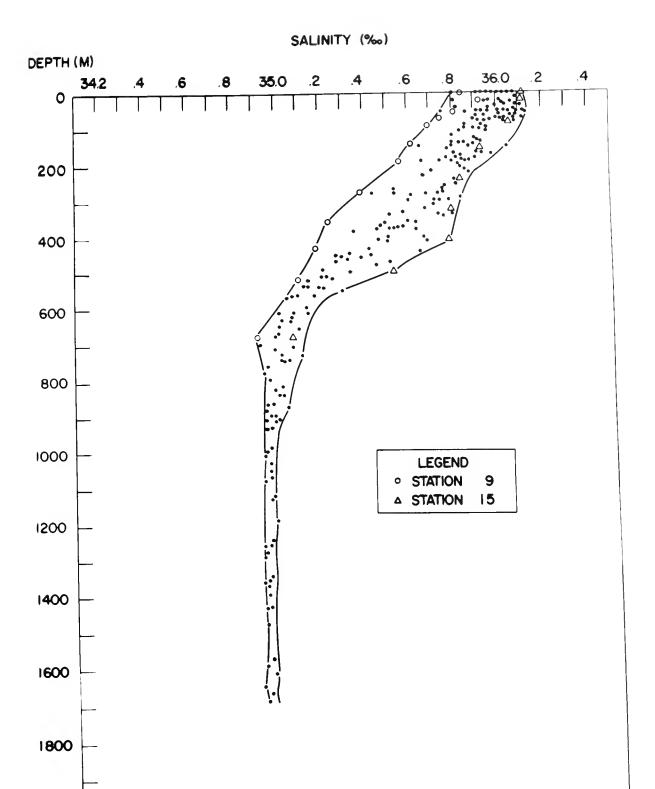


Figure 47. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from twenty-two casts taken by USCGC DALLAS, 6 May-28 May 1968.

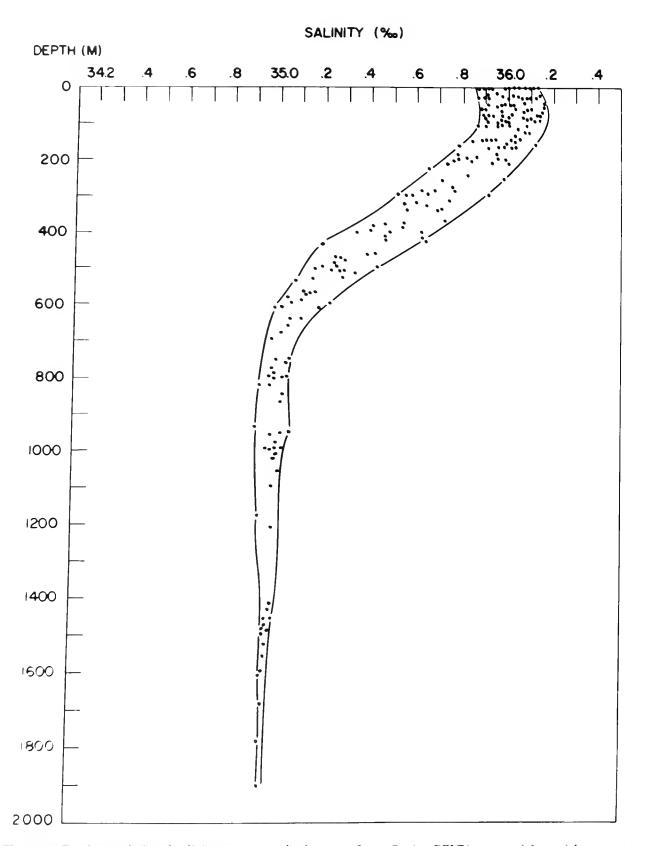


FIGURE 48. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from eighteen casts taken by USCGC CASTLE ROCK, 31 May-19 June 1968.

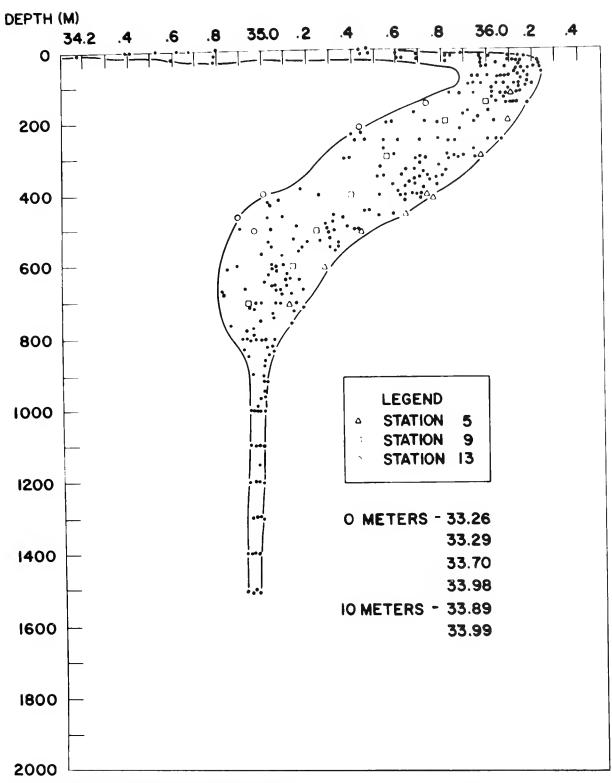


Figure 49. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from thirteen casts taken by USCGC HAMILTON, 6 July-9 July 1968.

SALINITY (%)

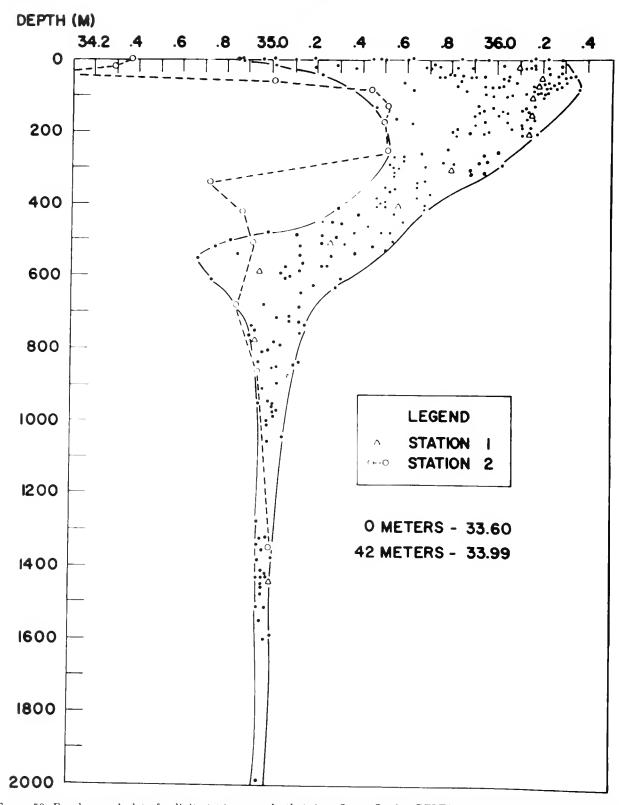


Figure 50. Envelope and plot of salinity (%) versus depth (m) at Ocean Station DELTA, prepared from twenty-two casts taken by USCGC DALLAS, 13 July-4 August 1968. Station number 2 is not included in the envelope due to its variance from the normal.



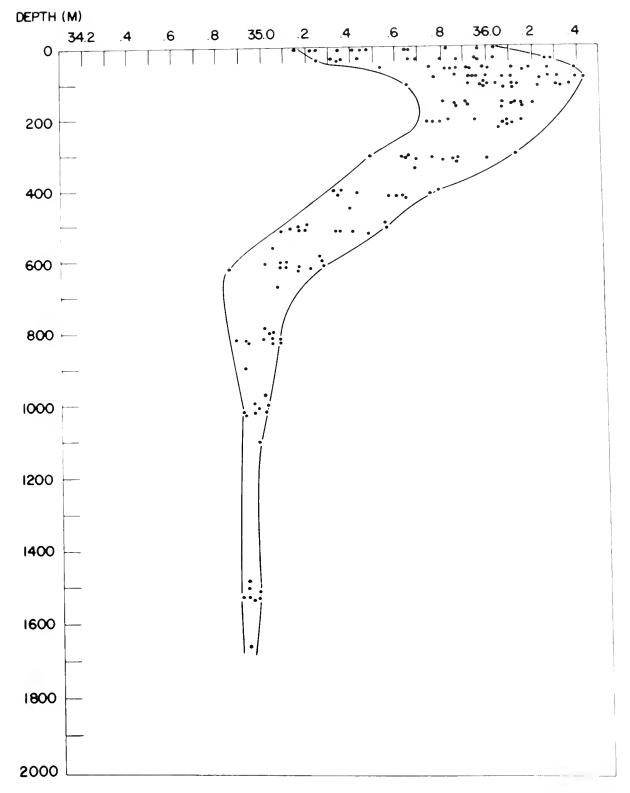


Figure 51. Envelope and plot of salinity (‰) versus depth (m) at Ocean Station DELTA, prepared from fourteen casts taken by USCGC COOK INLET, 5 August-25 August 1968.

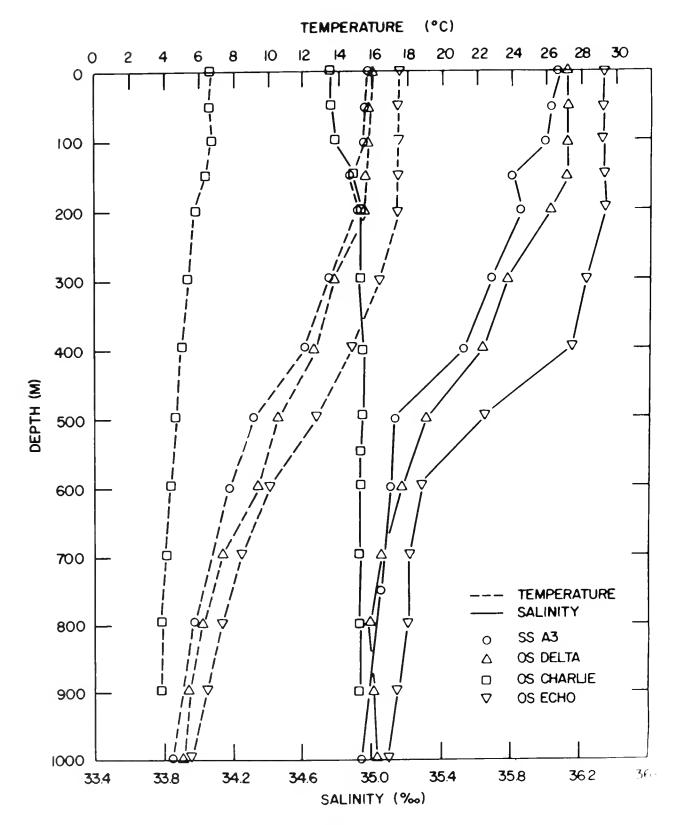


FIGURE 52. Temperature and salinity versus depth at OS DELTA, ECHO, CHARLIE, and Standard Section A-3 (station taken at 43°40′N, 43°46′W), 31 January to 3 February 1968.

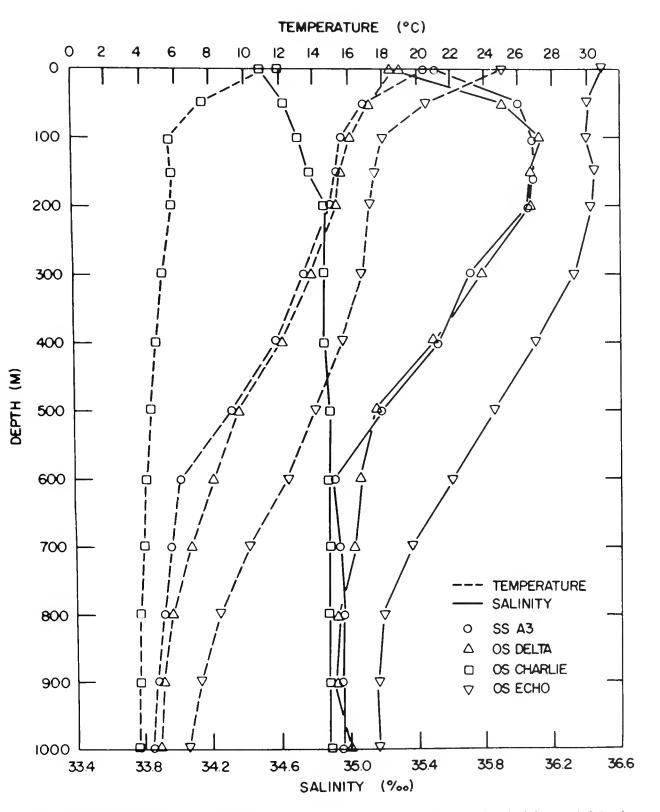


Figure 53. Temperature and salinity versus depth at OS DELTA, ECHO, CHARLIE, and Standard Section A-3 (station taken at 43°54′N, 45°08′W), 6 August 1968.

APPENDIX A OCEANOGRAPHIC DATA

Cruises I	Listed	
Table		Page
I.	CGC INGHAM, 27 August to 16 September 1967	56
II.	CGC CHINCOTEAGUE, 22 September to 10 October 1967	66
III.	CGC ESCANABA, 12 October to 3 November 1967	73
IV.	CGC OWASCO, 30 November to 15 December 1967	85
V.	CGC ABSECON, 13 January to 30 January 1968	91
	CGC CASCO, 28 February to 19 March 1968	95
VII.	CGC ABSECON, 20 March to 8 April 1968	105
	CGC COOK INLET, 14 April to 5 May 1968	110
IX.	CGC DALLAS, 6 May to 28 May 1968	120
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XI.	CGC HAMILTON, 6 July to 9 July 1968	141
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Codes Utilized

A complete description of the codes utilized in the tabulation of oceanographic station data can be found in National Oceanographic Data Center publication M-2, Processing Physical and Chemical Data from Oceanographic Stations. (Rev. August 1964, supplement issued May 1966.)

To facilitate use of the oceanographic station data listing, entry headings which are not self-explanatory are described below.

tory are described below.	
Depth to Bottom	Uncorrected sounding in meters.
	Depth of deepest sample to nearest multiple of one hundred meters.
DIR	Rounded to nearest multiple of 10 degrees.
	Increments of $1/2$ m. Sum of 5 meters plus increments of $1/2$ m if 50 is added to direction.
HGT	If numerals 2 through 9 are entered, period in seconds is twice the numeric entry or 2X (numeric entry) +1. For other entries see WMO Code 3155.
SEA	Sea state according to WMO Code 3700
Weather Code	If preceded by X, weather according to WMO Code 4501. If a two-digit entry, weather according to WMO Code 4677.
Cloud Code	
Type	Cloud type according to WMO Code 0500.
Amount	Cloud amount in eighths. Entry of the numeral 9 indicates cloud amount could not be estimated.
Water	
Color Code	Color according to Forel-Ule scale.
Trans	Transparency in whole meters as determined by Secchi disc.
Wind	
Dir	Rounded to nearest multiple of 10 degrees.
Speed	Letter S indicates wind speed in knots.
Barometer	Barometric pressure given in tens, units and tenths of millibars.
Air Temp. °C	Air temperature to tenths of a degree Celsius.
Vis. Code	Visibility according to WMO Code 4300.

Number of observed levels associated with the station.

No. obs. depths

Messenger time	Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release
G	of messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.
Card type	OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.
Depth (m)	Depth to nearest meter. A postscript T indicates depth was obtained therometrically; Z indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator;
	P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.
T °C	Temperature to hundredths of a degree Celsius.
S ‰	Salinity in parts-per-thousand.
SIGMA-T	Entered to hundredths.
Specific-volume	Multiply entry by 10 ⁻⁷ to obtain specific-volume anomaly in cubic centimeters per gram.
$\Sigma\Delta D$ Dyn. M \times 10 ³	Multiply entry by 10 ⁻³ to obtain anomaly of dynamic depth in dynamic meters referenced to the sea surface.
Sound Velocity	Sound velocity according to Wilson's formula entered to tenths of a meter per second.

Table I.—Observed and interpolated oceanographic data for stations taken by USCGC INGHAM at Ocean Station DELTA, 27 August–16 September 1967, prepared from NODC listing No. 31–1158 IN.

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REFERENCE TRY ID.	SHIP	LATITU	DE LO	INGITUDE 20	MARSOEN SQUARE	STATION	TIME	TÉAR	CHUISE	SIHA10	IOH	DEFTH TO	MAX. DEPTH OF	085	WAVE ERVATIONS	0.000	CODES		s	NODC
308 NO.	CODE	•	1/10	1/10 2		MD DAY	HR, 1/10		HO.	NUA	1881	BOTTOM	S'MPL'S	DILL	HGT FEE 38	CODE	TTFE AM	1		HUMBER
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			STD	0075	1964	3647		600	0020		0198		2+1							
			\$10	0100	1879	3644		519	0018	087	0247		221							
	1.3	1	085	0118	1834	36428		529	0017		021		211							
			STD	0125	1826	3642		631	0017		0292		210							
			STO	0150	1799	5643		538	0017	U40	0335		206							
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			STD		1714	3625		559	0015		0578		187							
	1.3	,	088	0300	1604	36157		565	0015	30 f	0576		178							
	1.3	ī	STO	0400	1548	3606		570	3014	773	0729		168							
	13	,	DBS	0462	1478	3594		577	3014	, ()	012		154							
	13	1	STD		1436	3590		582	0013	9 0	0872		147							
	1.21				1346	35774		542	0013	040	0012		128							
	131		085	10576					00136	104	1006									
	1 2 1		STO	0600	1319	3572		93	00129	*00	1006		390							
	131		OBS	0597	1184	35516 3551		704 705	0011	16/	1111	150								
			STD	0700 0800	1176 0938	3527		729	00096		1131									
			510	0900	0749	3509		144	00090		1327									
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	131		21 D	1000	0616	3500		755	00056	150	1401	144								
			STD	1100	0515	3494		763	03063		1466	140								
	131		DRZ	1146	0917	34925		765	03000	,,, a	4 400		393							
	101		SID	1200	3479	3494		767	00056	41	1525	148								
			STO	1300	3466	3497		771	00053		1580									
			STD	1400	0451	3499		174	00051		1632	14								
	1.31		DBS	11447	0444	34992		775	55071	-	. 372	149								
	101		SID	1500	0435	3499		176	00049	100	1682	14								
			STD	1750	0340	3496		179	0004		1805	14								
	131		085	11756	0389	34954		778	3007	0	1000	149								
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ID.	SNIP	LATITU		NGITUDE 3	squ	ARE	STATION 1	YEAR	CRUISE		ATION	DEPTH	. 01	D8	WAVE	ZMON	W.EA- THER CODE	CDDE	5		NDDC STATION NUMBER
ND.	-	-	1/10	1/10	10*	1,0	MO DAY		NO.		JAPBER	-	3 00 11	+	NGT #	58.	4 0000	7171 A			
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	1.2	1	085	0000		349	36273	2478	2021		0011		326								
			SID	0010		344 339	3628 3530	2480 2403	0031		0032		327 327								
	12	7	D85	0025		336	36311	2484	0031	-03	0000		328								
	• •		STD	0030		272	3634	2505	0024	/ 314	0094		313								
			SID	0050		065	3543	2570		3137			263								
	1.2	7	085	3051	2	054	36435	2573				15	261								
			SID	0075		744	3647	2605		-474			236								
			STD	0100	_	857	3647	2627	001	7935	0247		215								
	1.2	7	088	0102		851	36474	262 4					214								
			STD	01.25		807 770	3645	2638		957			205								
	1.2	7	085	0153 0152		76=	3642 36421	2645 2646	0016	5375	0333		198 198								
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	1.2	7	D35	10205		7 42	16403	2653	001	, , , ,	0 7 4 2		1 95								
			STD	0250		653	3633	2657	0015	5573	0492		190								
			STD	0300	1	042	3624	2562	0015	5248	U 559	15	182								
	1.2	7	08\$	0305	1	637	36227	2662				15	181								
			SID	0400		524	3603	2673	0014	.400	0717		160								
	12	7	385	0406		510	36014	2674					158								
		7	STO	3533		336	3560	2685	0013	3501	2857		129								
	12	1	08\$ 510	T 05 0 7		37± 30±	35787 3573	2080 2095	0012				128								
	1.2	7	082	3607		300	15720	2697	0012	0.41	0300		117								
		,	SID	0700		107	3543	2712	0011	1235	1108		063								
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	12	7	J65	1010		617	35021	2751					425								
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TABLE I.—Continued

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			T	Т						1	+	12.0	100	1	1			1-7		_	Ļ.		- 1			_		_			_			_	_
	MES.	SENGE IME (CAST NO.	CA		0.6	EPTH I	(m ž		J 10	3	. 1/4.0	StG	MA-	-1	SPECIFIC	VOLU	ME	2 ∆ OYN	7 b		SOUI		02	m]/1		04-P		TA L-P	NO2-1		NO,-N	5104-		
		1/10	I	, , ,	"														1 1	103	,	VELO	CITY			×4	- =1/1		- 61/1	## - at/	1	vg = 01/1	¥@ - 01.	4	
				S	TD.	0	000)	2	339	35	09	23	91		004	007	6	000	00	1	53	10								T				
	•	124		08:	s '	C	000	0	2	339	`35	980	2.3	91				,			' 1	53	10											,	,
					I D	C	010)		205	35			50		003	449	8	00	3 7	1	52	81												
					10		1020			097	35			95		003	017	3	007	70		52													
		128		08			1024			061		638	25									52													
					F D		10 30			025	35			21		002			009			152													
					D		050			928	35	-		59		002	+28	0	015	1		.52													
		128		08			1050			928		809	25									52													
					I D		0 7 9			805	36			12		001			020			51													
					0		1100			710	36			46		001	60 →	6	024	9		51													
		128		0.83			100			710		246	26									51													
					r D r D		1125			653	36 36		26 26			001			028			51													
		128		0.85			1150			603		117	26			001	4/8	0	032	6		51													
		120			5 [D		1200			523			26			0.31	. 05	,	030			514													
		129		083			200			523	36	000	26			001	405	1	039	70		51.													
		123			ro		1250			450	35		26			001	340	1	046			51													
		128		089			1298			396		790	26			001	300	1	040	0		50													
		,			r p		300			395	35		26			001	313	7	053	14		50													
		128		089			1394			334		751	26			301	J. 7.		0))	, ~		50													
		- 20			ſρ		400			331	35		26			001	248.	>	066		-	50													
		129		DB:			1488			288		699	26				_ 70.	_	-50			50													
					ro		500			262	35		26			001	209	4	078	16		50													
		128		DB9			5 80			102		362	27				_ ,				_	50													
					D		500			067	35		27			001	1 08	1	090	12		50													
				5.1	C T		700			905	35		2.7			000			100			49													
		128		085	5		772			804		092	27						-			499													
				S 1	O1	0	800)	0	769	35	09	27	41		000	817	3	109	4	1	499	50												
				S 1	O C	0	900)	0	657	35	06	27	55		000	686	7	116	9	1	492	2 3												
		128		D89		0	968	3	0	596	35	048	27	62							1	49	10												
				S 1	O	1	000)	0	571	35	04	27	64		000	592	6	123	13	1	490	05												
				S 1		1	100)	0	509	35	0.2	27	70		000	5349	5	128	9	1	489	96												
				S 1			200		0	472	35	00	27			000	510	7	1 34	2	1	48	97												
		128		089			215			468		993	2.7								1	489	98												
		128		089	5	1	463	0	0	414	34	964	27	760	2																				
		128		085	•	1	462	.0	0	414	34	764	27	160	7																				

REFERENCE	SHIP				MARS	DEN	STATION 1	IME		ORIGIN	ATO	R'S	DEFIN	MAX		WAVE		W f A	CLOUD			+ODC	
CODE NO.	CODE	LATITUD		LONGITUDE E			IGMT		TE AR		STATI		TO BOTTOM	O.F		SERVA TIO		THER	CODES			UMBER	
-	P.N.		1/10		10"	-	MO DAY	-	1.0.7	-		-		S'MPL	-	HGT FIG	58 A		TYPI AM	1			
311159	IN	4342	N	04101 #	[149]		-	127	1 46 1				4600	15	26	2	-	18	8 6	-	1	0006	
					-	WAT	-	WIND SPEED	BAR			VIS	NO.	5.76	CLAL								
					0	COOE	TRANS DOL	DA	7		9 U		OBS DEPTHS	OBSERV	ATIONS								
					-		21	506	28		22		14		_								
					1			1000	1.0	1 2 3 3			لتنبا			Ц.	-						_
	MISSING TIME	CAST NO.	CAPD	DEPTH (m)	7	t	5 %.	SIG	MA-1	SPECIFIC VOLU		₹ △ D	700		0 2 ml/	PO4=		144-6		NO3-N	51 O4=51	eH.	3
	M# 1/1		1177							andmag		x 10 ³	VELO	CITY		μφ = d1	/4 ===	+ et/(μg = 01/1	μg - αt/I	nd - et.;		¢
			51			80	3552	24		003261	6	0000	152										П
	12	7	06\$	0000		60	35523	24					152										
			ST			73	3551	24		002997		0031	152										
			STI			84	1549	25		002788	1	0050	152										
	1.2	7	085	0025		40	35480	25					152										
			ST			20	3556	25		002581		0.087	152										
		_	ST (25	3584	25		002155	4	0134	151										
	12	/	06\$	0050		25	35841	2.5					151										
			ST			21	3600	26		001807		0164	151										
		_	STI			37	3615	2.6		001511	4	0225	151										
	1.2	7	085	0:01		34	36160	56					151										
			5 7 (E 0	3608	26		001+47		0262	151										
		_	ST			28	3600	26		001+02	6	0298	151										
	1.2	/	DBS	0150		28	35997	26					151										
			STE			39	35 € 5	26		001339	9	0367	150										
	12	/	DRZ	10202		36	35840	26			_		150										
			STO			77	3575	26		001297		0433	150										
		-	511			39	3571	26		001264	1	0497	150										
	1.2	,	085	0302		38	35708	26		20::22	-	0. 21	150										
	1.2	7	085	0400		35	3578 35782	26		001232	4	0621	150										
	12	1	211			60	3545	27		20113		07/ 2	150										
	12	7	085	10506		58	35431			001176	5	0742	150										
	1 2	1	ST(82	3520	27 27		2012/		0053	150										
	12	7	DBS	0603		77	35153	27		001045	7	0853	149										
	1 2	,	STE			41	3512	27		000391		0950	149										
			ST			22	3505	27		000571		1033	149										
	12	7	D85	10904		18	35042	27		000778	0	1000	149										
			511			26	35042	27		000050	_	1105	149										
			STE		05		3504	27		000563		1105	143										
	1.2	7	DBS	1006		40	3503 #	27		000303	_	1100	148										
		•	STO			05	3501	27		000536		1221	148										
			STO			64	3497	27		000514		1274	148										
	1.2	7	085	T1258	04		3497	2.7		_00/17	_		146										
			ST		04		3497	27		000501	7	1325	149										
			STO			20	3496	27		000491		1379	149										
			516		04		3436	27		000482		1423	149										
	1.2	7	085	T1510	0 -		34557	27			-		149										
													•										

																	_									_			
REFERENCE	SHIP					. :	MAI	SDEN	STA	ION 1	IME		L	QRIGIN	ATOR"			EPTN	MAL		w	A VE		WEA	CLDU			i.	NDDC
CTET ID.	CODE	LATITU		LDN	GITUDE	100	l .	JARE		GMI		YEAR			OFFATE			TO	Q.F	L.				CODE	COD	- 1			REMUN
CODE NO.			1/10	_	1/1	-	10*	1*			ik,1/10		-+-		_	-	-	_	S'MPL"			T PEI	56 A	+	TYPE A		-	-	0007
311158	IN	4414	N	040)47 w		149	40	09	04	166	1967	U	10 00			4 8	100	19	27	1				8 6	١,		- 1	0007
								WA	TER		WIND	BAI	to-	AIR TE	WE E	VIS		NO.	SPE	CIAL	1								
								CDLO	TRANS	DUL.	SMII			DRY	WE!	COD		OBS. EPTHS		ATIONS									
								CDD	1891	1	FORC	1 000	_				_				-								
										22	516	23	ı U	250	23	7	1	4											
	MISSING	CAST	CA	• 0					Τ.		Τ		50	ROFIC VOLU	m1	₹ A D	. [1DU	ND		[PO4-		DTAL-P	ND2-1		(O)-N	5104-5	
	1100	S NO.	TT		DEPTH	(m.l		7 10	1,	٠/٠.	sig	MA-1		NOMALT-I	47	2 10 ³	<u>^- </u>	VELD	CITY	Q3 ml/	"	yg - 01	171	µg - ±1/1	ug - at/		g = at/l	48 - 81/	
	NR 1/10	•	-	TO	000	^	+ -	362	35	90	24	38	10	03561	8	0000	\rightarrow	153	24		+					+			_
	١,,	ار	08		000			362		795		38	1 9	03701	۰ ۱	,,,,,,	'	153			-				I	1	- 1		1
	16	0		T D	001			309	35			54	n	034 07	6	0035		153											
				TD	002			229	35			79		031 71		0068		152											
				TD	003			122	35			12		002868		0098		152											
	16	6	08		003			122		871		12						152											
		•		ťο	005			766	35			13	0	01908	2	0146	,	151											
	16	6	0.6		006			635		027		47						151											
				ΤO	007			598	36		26	55	0	01514	2	0188	3	151	29										
				τo	010		1	543	35	99	26	66	0	01424	4	0225	,	151	16										
	16	6	0.6		012			503	35	962	26	72						151	06										
	•		S	TD	012	5	1	496	35	95	26	73	0	001361	0	0260)	151	05										
			S	TD	015	0	1	458	35	88	26	76	0	01339	8	0294		150	96										
	16	6	0.8	S	018	2	1	416	35	819	26	80						150	87										
			5	TΟ	020	0	1	398	35	80	26	683	C	001289	2	360)	150											
	16	6	D8	5	T024	-2	1	359	35	761	26	88						150											
			S	ΤD	025	0	1	357	35	76	26	88		01249		0423	3	150											
			5	TD	030	0	1	330	35			92	C	001224	2	0485	5	150											
	16	6	DB	5	036	4	1	264		650		599						150											
				TD	040			196	35			703	C	001137	0	0603	,	150											
	16	6	ΩB		048			040		320		715						150											
				ŦΟ	050			011	35			718		001 009		0710		149											
				T D	060			1837	35			732	C	000873	5	0804	•	149											
	16	6	0.6		1060			1826		104		734						149											
				ro	070			0694	35			748	C	000725	U	0884	*	149											
	16	6	0.6		072			0660		030		752		1004 20	_	205	,	148											
				TD	080			0601	35			758 765		000629 00 0 566		0952 1012		148											
	1.	4	5 08	T D	090 T097)534)494	34	99 980		769		100000	3	. 012	-	148											
	16	0		T D)494)488	34			769		000524	4	1066		148											
				TO	100)488)466	34			772		000524		1118		148											
				TD	120)445	34			775		000487		1168		148											
	16	4	90		122			1445		70 983		775		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		•	148											
	10	0		T D	130			0425	34			777		000473	6	1216	5	148											
				To	140			1408		97		778		000468		1263		149											
				TO	150			393	34			778		000472		1310		149											
	16	6	08		T154			1386		937		777	`		-		-	149											
	16		DB		186			368		934		7790																	
			50	-	100		•		,,,		-	, •																	

TET ID.	SNIP	LATITU		LONGITUDE 100		STATION 1	YEAR		TION	DEPTH DEP	H 01	WAVE SERVATIONS	WEA- THER CDDE	CODES		1 51	NODC LATION UMBER
DE ND.			1/10	1/10	10, 1,	MD DAY				J mr		HGT FIR SE		0 3	1	!_	0008
311158	IN	4411	N	04058 W	149 40	05 05	129 1967	010 008		+600 1	7 26	_ 4		0 3		'	,,,,,
					_		WIND		VIS	NO. S	PECIAL						
					COLO	TRANS DIR.	OR (mb)		WET CODE	ORS. DEPTHS ORSE	RVATIONS	i					
						22	514 18		28 7	14		-					
							100			- 1		١,		,			
	MISSENGE	CAST	CAR		1 7	s *6.	SIGMA-T	SHICHE VOLUME	TIN. M	SDUND	Q2 mL	70 PO 4-P	1014L-#	NO2-N	ND3-N	5104-5	μN
	HR 1/10	ND.	TYPE			1		ANOMALT-1107	X 10 ³	AFFOCILA	-	yg - ∉1/1	¥8 - 61/I	μg + at/1	₩₩ - 01/1	yg = a1/1	
			5.T		2340	3529	2406	0038654	0000	15313							
	1 129	, ,	0.85	0000	2340	35289	2406		'	15313	1	'		•	'	,	
			ST		2246	3541	2442	0035240	0037	15292							
			S T		2150	3553	2478	0031847	0070	15271							
	129	9	085		2072	35622	2506			15253							
			5.1		2047		2515	0028344	0101	15247							
	• • •		5.1		1840	3586	2585	0021774	0151	15195							
	129	,	D85		1801 1769	35914	2599 2623	0018221	0201	15185 15182							
			5 T		1723	3613 3628	2646	0016148	0244	15174							
	129		085		1703			0010140	0244	15170							
	12	•	51		1661	3622	2656	0015252	0283	15159							
			5 1		1603		2661	0014837	0321	15144							
	129	•	085		1573		2664	001.031	4322	15137							
	•••		51		1538		2669	0014229	0393	15131							
	129	•	085		1515					15127							
			5 T		1473	3592	2676	0013720	0463	15118							
			5.1	0 0300	1413	3582	2681	0013343	0531	15105							
	129	•	085	0330	1385	35787	2684			15101							
			5 T	D 0400	1350	3578	2690	0012773	0661	15103							
	129	•	0.65		1329		2695			15100							
			5 1		1278		2697	0012263	0786	15092							
	12	,	085		1216					15077							
			51		1113		2708	0011334	0904	15048							
	129)	085		1007				1.01.0	15018							
			ST		0527		2724	0009809	1010	14995							
	1.20		S1 085		0764		2 74 0	0008242	1100	14948							
	129	7	51		0662		2752	0007091	1177	14920							
			51		0545		2762	0006082	1243	14893							
	12	•	085		0479			00000002		14882							
		•	51		0478		2769	0005379	1300	14883							
			51		0449		2772	0005155	1353	14887							
			51		0427		2773	0005026	1404	14895							
	12	9	089		0414					14901							
			51		0410		2775	0004927	1454	14904							
			51	0 1500	0398	3454	2776	0004860	1503	14916							
	1.2	7	089		0391		2777			14939							

NCE SHIP	****		NGITUDE 1	MARSD	EN IS	STATION TI		YEAR		GINAT		_	DEFTN	MAX.	045	WAVE ERVATION	WEA THE				NODE
ID. I CODE CA	ITUDE		NGHUDE E	3007				10 48	CRUISE NO.	STA	HON	- 1	BOTTOM	OF S'MPL'S		HGT PIR	COR				NUMBE
NO. 150 IN 63		/10	1/10 H	10.	31	MO DAY H		967		009			4600	16		3	16		+		000
158 IN 43	47 1	1 0	IO2 H	1144		1.1		707	1		-	[_				1 .0	1 3 10	1		
				1-	WA	_	SPEED	BARC	· -	TEMP	\rightarrow	VIS.	NO. 085,	SPEC	IAL						
				C	OLOF	TRANS DIR.	0.4	METE		. I	VET C	000	DEFTHS	OHSERV	TIONS						
				- +		21	SIS	15			28	7	14	-							
			_	-	_	1	-	Ι,				_		1			1	1		_	1
MESSENGE CA	17	CARD	DEPTH (m)	T	°c	s ./	SIGM	A-T	SPICIFIC	VOLUME	E /	2 M	301	DCITY	02 ml/l	PO 4-P	TOTAL-		NO3-N	\$1 O a - \$	
HB 1/10				-	_									- 1		pg - 017	24 - 417	P4 - 001	99 - 001	14-00	-
		STO	0000	23		3544	241		0037	453	0.00	00	15							l	
133	. (085	0000	23		35440 3540	241		0036	0.4	00	. 7	152								
		STD	0010	22					0036		00		152								
		STD	0020	21		3536	245		0034	100	00	14		263							
133		085	0027		25	35332 3541	247		0030	902	01	0.4	152								
		\$10	0030	20			248		0021		01			192							
		210	0050	18		3584 35894	258		0021	000	J.	,,		185							
133		0 8 S 5 T D	0053 0075	18 17		3611	262		0018	086	02	07	15								
		STD	0100	17		3623	264		0016		02		15								
133		085	0107	16		36241	265		0010	000	02	٠,		164							
133		510	0125		29	3614	265		0015	116	02	88	15								
		510	0150		67	3604	266		0014		03.			132							
133		085	0161		46	36006	266					-		127							
133		STD	0200		10	3597	267		0013	991	0.3	97		122							
133		085	T0213	14		35954	267							119							
		STD	0250		34	3584	267		0013	486	04	65	15	104							
		STO	0300		64	3571	268		0013		05	32	150	088							
133		085	0321		40	35673	268						150	083							
		STD	0400	12	88	3562	269	2	0012	558	06	60	150	078							
133		085	0428	12	60	35579	269	14					150	073							
		510	0500	11	55	3541	270	1	0011	799	07	82		046							
133		085	T 05 36	11	08	35348	270							035							
		STO	0600		44	3530	271		0010	817	08	95		022							
133		085	0644		91	35267	271							010							
		SID	0700		79	3517	273		0009		09			976							
		STD	0800		18	3505	274		0007	689	10	79		930							
133		088	0850		55	35012	279							913							
		SID	0900		21	3502	279		0006		11			908							
		STD	1000		61	3503	276		0005	861	12	14		901							
133		DBS	1077		23	35035	277		0000	225		7.0		898							
		510	1100		14	3503	277		0005		12			898							
		510	1200		80	3501	277		0005		13			901							
		STD	1300		51	3499	277		0005	005	13	13		905 909							
133		085	T1350		39	34985	271		000/	072	14	12		912							
		510	1400		28	3498 3496	277		0004		14			921							
		510	1500		10	3496	277		0004	913	14			938							
133		085	T1636	03	74	34750	211	,					14	,,,							

EFFRENCE	*****			E		MARS					ONGINATOR'S			DEPTH	DEPT		WAV		WEA-	Cronp			ODC		
itr 10.	CODE	LATITUDE		LONGITUDE		100		IGMTI			MAST		MOITATE	١.	10 0110M	10	1	SERVA		1HER CODE	CODES	_		LIMBER	
104 NO.			1/10	040	1/10	149			AY N	30 1	05.7	NO. 01	NU M SEE		600	15 APL	18	2	PEA SI	14	B B	 	-	010	
311150	IN	4352	N	040	059 H [149			,, 1	30 1	301				000	1 .	1 10	4		**	1 0 10	ļ		010	
							WA	FER	W	IND	BARO			VIS	NO.	591	CIAL								
							CODE	TRANS.	OIL	SPEED	(mba)		WET	COOR	OBS. DEPTHS	OVZEN	VA TIONS								
						ŀ	COUL		18	FOACI	163		228	17-	14										
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	MESSENG	CAST	CAR		DEFIN (m)	t	70		٠/	SIGM	AT	SPECIFIC VOLU		A D		UND	02 ml/		4-2	TOTAL-P	NO2-N	NO3-N	SI 04-5+	pH	S C
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			5 T		0020		881	357		242		003676	5 0	076	153										
	1 30)	D85		0024		383	358		243						333									
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			5.1		0050		27	364		257 261		002248		217		217									
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	1.30)	085	6	0292	1	515	360	007	267	3					139									
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	1.3	0	089		0954		585	350		276						903									
			51		1000		552	350		276		000595	7 1	262	14	897									
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	1.3	0	085	5	T1198	0	452	349	356	277	2				148	888									
			51	0.1	1200	0	452	349	76	277		000516		373		898									
				0	1300		441	34		277		000508		+24		901									
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1	1/10 T	HO T	ARD TPE	DEPTH (m)	1 5	\$ 1%.	SIGMA =T	ANDMALT-1107	X 103	VELC	CITY	0 2 ml/l	ид - в1/t	µg • 01/1	nB - 01/1	vg - 01/1	yp = 01/	
	1 30		35 35	0000	2356 2356	35 7 3 35 7 25	2434	0035955	0000	153								
	•		STD	0010	2339 2321	3578 3587	2443 2455	0035110	0036	153								
	1 30	08	3.5	0024	2314	35924	2461			153	318							
	1 30	08	5 T D 8 5	0030 0049	2213 1950	3608 36396	2502 2598	0029589	0102	152 152								
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	1 30	0.6	35	0097	1682	36136	2045			151	60							
			5 T D	0100 0125	1681 1663	3615 3620	2646 2654	0016131 0015443	0242 0282	151								
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	1 30	01	BS	0192	1562	36076	2668			151	138							
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	1 30	D:	85 5 T D	0288	1416 1402	35800 3579	2679 2681	0013335	0531		104							
	1 30	08	85	0383	1334	35735	2691			150	92							
	130		5 T D 8 5	0400 0479	1330 1309	3574 35757	2692 2698	0012517	0660		093 100							
	1 30		STD	0500 0574	1262 1106	3567 35416	2701 2711	0011948	0782	150								
	1 30		STD	0600	1058	3535	2714	0010701	0896	150	028							
	130		STD BS	0700 T0 77 2	0885 0774	3516 35060	2729 2 7 38	0009331	0996		979 947							
			5 T D	0800 0900	0728 0592	3504 3498	2743 2757	0007913	1082 1154	149	934 896							
	130	Di	85	0958	0535	34956	2762			148	288							
			STD STD	1000 1100	0521 0490	349 7 3498	2765 2769	0005757	1216		884 888							
	130	DI	BS STD	T1189 1200	0465 0462	34986 3499	2773 2773	0005084	1324		992 893							
		4	STD	1300	0437	3497	2774	0004959	1374	148	899							
	130		5 T D	1400	0414	3496	2776	0004855	1423	149	906							
		- 01	B 5	T1446	0405	34951	2776			149	910							
	1,00	01	B 5	11446	0405	34951	2776			14	910							
		01	B 5	T1446														
REFERENCE	HIP	LATITUDE	LDI	HGITUDE S	MARSDEH SQUARE	STATION TI	ME YEAR		TIOH	DEPTH TO	MAL DEPTH DF	Q15	WAVE ERVATIONS	WEA- THER CODE	CODES			NODC STATION HUMBER
REFERENCE ST.	HIP DDE		LDI	HGITUDE \$2	MARSDEH SQUARE		ME YEAR	CRUISE STA		DEPTH	MAL DEPTH	OBS OR.	WAVE ENVATIONS HOT FER SI	THER	CODES			NODE STATION HUMBER 0012
REFERENCE SP	HIP DDE	LATITUDE 1/1	LDI	HGITUDE 83	MARSDEH SQUARE 10' 1" 149 40	STATION THE IGNT!	ME YEAR 8.1/10 25 196	7 DIO 012	TIOH	DEPTH TO 10 TO M	MAL DEPTH OF S'MPL'S	085 5 09. 29	HGT HER SI	THER	TIPE AM			STATION HUMBER
REFERENCE SP	HIP DDE	LATITUDE 1/1	LDI	HGITUDE 83	MARSDEH SQUARE 10' 1' 149 40	STATION TI IGMTI MO DAY N 0 9 10 1 EEE W TRANS DIL	ME VEAR 25 196	CRUISE STA NU 7 D1 0 012 RO- AIR TEMI	MER VIS.	DEPTH TO BOTTOM 4550 HO. OBS DEPTHS	MAL DEPTH OF S'MPL'S	085 5 09. 29	HGT HER SI	THER	TIPE AM			STATION HUMBER
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REFERENCE 35 10 10 10 10 10 10 10 1	HIP DDE N 4	LATITUDE 1/31 4402 N	LDI	HGITUDE 83	MARSDEH SQUARE 10' 1' 149 40	STATION TI IGMTI MO DAY N 0 9 10 1 EEE W TRANS DIL	ME VEAR 25 196	CRUISE STA NU 7 D1 0 012 RO- AIR TEMI	WET COO	DEPTH TO BOTTOM 4550 HO. OBS DEPTHS	MAL DEPTH OF S'MPL'S	085 5 09. 29	HGT HER SI	THER	TIPE AM			OO12
#1528ENCE 51 10. CO CO NO. CO CO NO. CO CO NO. CO CO CO NO. CO	HIP DOE	LATTUDE	O 4	DEPTH (m)	MASSDEN SQUARE 10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	STATION TI IGMT) MO DAY N 09 10 1 IEE W TEANS DIR. 1 24 5 %.	ME YEAR 196 196 196 196 196 196 196 196 196 196	CRUISE STAND. 7 D10 012 RO- ESTER DRY BULE 42 206	WET COO	DEPTH 10 80110 M 4550 HO. OBS DEPTHS 14 SOIL VELU 15:	MAE DEPTH OF STAPES STA	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
REFERENCE ST CON NO. CO CON NO. CO CO CO CO CO CO CO CO	HIP DDE N 4	1/31 CAST C HO.	04 04 04 04 04 04	DEPTH (m) 0000 0010	MARSDEN SQUARE 10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	STATION TO IGMT! MO 0 DAY N 09 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ME VEAR 1,1/10 25 196 196 197 197 197 197 197 197 197 197 197 197	CRUISE STANDON OF THE PROPERTY	WE1 COO 0 1 10 10 10 10 10 10 10 10 10 10 10 10	DEPTH TO ROTTOM 4650 HO. OBS DEPTHS 14 SDI VELC 15 15	MAE DEFINATION OF STATE OF STA	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
######################################	HIP DOE	CAST CAST CO	APD SYD 85	HGITUDE 1 1/10 049 W	MARSDEN SQUARE 10° 1° 10° 10° 10° 10° 10° 10° 10° 10°	STATION TI IGMTI MO DAY N 09 10 11 IEE W TRANK DB. 24 S */ 3571 35706	ME YEAR R.1/10 25 196 MM M M M M M M M M M M M M M M M M M	CRUISE STAND TO DIO 012 TO DIO 012 TO DRY BULE BULE TO DRY BULE BULE TO DRY BULE BULE BULE BULE BULE B	WET COO 0 10 10 10 10 10 10 10 10 10 10 10 10 1	DEPTH 10 80 10 10 10 10 10 10 10 10 10 10 10 10 10	MAE DEFINATION OF STARTES 13 SPECORSERV	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
RESERVICE ST 10. CO CO CO CO CO CO CO C	SSENGI NI 4	CAST 6 1	A*D 04	DEPTH (m) 0000 0010 0020 0020 0030	MASSEH SQUAR 10° 1' 149 40 COLOR CODE 1 T C 2263 2263 2266 2249 2247 2247 2132	STATION TO IGMT! MO DAY NO OP 10 1 154 W TAME DR. 24 S *4. 3571 35706 3573 35754 3599	ME VEAN (100 M) (100 M	CRUISE STANDON OF THE PROPERTY	WE1 COO 0 1 10 10 10 10 10 10 10 10 10 10 10 10	DEPTH 10 NO. OBS DEPTHS 14 SOLECTION 15: 15: 15: 15: 15: 15: 15: 15: 15: 15:	MAE DEPTH OF SYMPL'S S	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
RESERVICE ST 10. CO CO CO CO CO CO CO C	N 4	CAST C 0	A*D 04 A*D 04 A*D 05 B5 S10 B5 S10 B5 S10 B5 S10	DEFTM (m) 0000 0000 0010 0023 0030 0045	"AALDIH" 10" 1" 149 40	STATION IN IGM11 MO DAY IN IGM11 MO DAY IN IGM11 MO DAY IN IGM1 DILL IT IS IN IGM1 MO DAY IN IGN1 MO DAY IN IGM1 MO DAY IN IGN1 MO DAY IN IGN	ME L1/10 25 196 25 196 370 MM 370 MM 510 3 31GMA-T 2459 2463 2463 2518 2607	CRUSS STA	VIL	DEPTH 10 NO. 0015 DEPTH 14 SOL 15: 15: 15: 15: 15: 15: 15: 15: 15: 15:	MAE DEPTH OF STAPES 13 SPECO OBSERV 299 299 299 299 299 299 299 299 299 29	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
REFERENCE STORY ID. COOK NO. CO	SSENGI NI 4	CAST C 1	A*D 04	DEPTH (m) 0000 0010 0023 0030 0046	MASSORM SOUAKE 10° 1° 10° 10° 10° 10° 10° 10° 10° 10°	STATION TO IGMT! MO DAY NO 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ME VEAR 17/10 25 196 196 196 196 196 196 196 196 196 196	CRUST ST. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO	WET COO 0000 0003 3 0066 0097	DEPTH 10 80110M 4650 No. 085 DEPTHS 12 15: 15: 15: 15: 15: 15: 15: 15: 15: 15:	MAE DEPTH OF SYMPL'S SAPEC OBSERV UHD DCITY 299 299 299 299 299 299 273 225	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
REFERENCE STORY ID. COOK NO. CO	SSENCI NA 4	CAST C. N. CAST C. O. O. O. O.	A*D O4 A*D O5 O5 O5 O5 O5 O5 O5 O5 O5 O	DEPTM (m) 0000 0000 0010 0020 0023 0046 0050 0075	MASCUPH SOUAH 16" 1 14 9 40 16 17 16 17 17 17 17 17	STATION TO THE WAY TEMPS OF THE STATE OF THE	ME VEAR 25 196 196 197	CRUSS STAN	VILL	DEPTH 10 NO. 10 TITOM 10 NO. 1	MAE DEFINE OF SAFE SAFE SAFE SAFE SAFE SAFE SAFE SAF	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
REFERENCE STORY ID. COOK NO. CO	SSENCI NA 4	CAST 6402 N	A**D 0 04 A**D 85 T D 85 S T D 86 S S T D 87 S T D 88 S T D	DEPTH (m) 0000 0000 0010 0020 0020 0020 0046 0050 0075 0091 0100 0125 0135	MASSORM 107 11 14 19 10 10 10 10 10 10 10	3571 35706 3575 3575 3575 3638 3638 3638 3638 36375	ME TEAR 1.710 25 196 197 197 197 197 197 197 197	CRUSS STU	VILE	DEPTH VO OST	MAL DEFIN OF SMAPL'S 13 SPECT OF SERVICE OF	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
RESERVICE STORY ID. COOR NO. CO	SSENCE 125	CAST C N O	A**DE	DEFIN (m) OGO OGO OGO OGO OGO OGO OGO OGO OGO OG	MASSOIN 107 1 14 9 40 1 1 1 1 1 1 1 1 1	STATION TO IGMT! MO DAY NO DA	ME VEAN 1,1/10 2 5 1 96 1,1/10	CRUST STUDENT STUDEN	VIL	DEPTH GO SOTTOM MO. GO GO SOTTOM MO. GO SOTTOM MO. GO SOTTOM MO. GO GO SOTTOM MO. GO SOTTOM MO. GO SOTTOM MO. GO GO SOTTOM MO. GO GO GO GO GO GO GO	MAE DEFINITION OF SMITS 13 3 SPECE SERVICE SER	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
REFERENCE STORY ID. COOR NO. CO	SSENCI 1/10 1/25	CAST C N	A**D O4 A**D S5 S5 S5 S5 S5 S5 S5 S5 S5 S	DEPTH (m) 0000 0000 0010 0020 0023 0030 0046 0050 0075 0091 0100 0125 0150 0150 0150 0150	MASSUPH SOUAH 10° 11 14° 40 16° 17° 17° 18°	STATION TO INCOME. MC DAV N 09 10 11 IF W 24 S 3571 35706 3573 3575 3575 3575 3575 3638 3638 3638 3638 3638 3638 3638 363	ME VEAN 125 196 196 197 197 197 197 197 197 197 197 197 197	CRUSS STU	VI VI VI VI VI VI VI VI	DEPTH ORDITION NO. ORDITION NO. ORDITION	MAL DEPTH AND ADDRESSED WHITE DEPTH AND ADDR	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MEFRENCE SI COO NO. CO	SSENCI 1/10 1/25	САST С 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A**D 85 TD 85 STO 85 STO 85 STO 85 STO 85 STD 85 STD 85 STD 85 STD 85 STD 86 STD 87 STD 88 STD 8	OLFTH (m) OLFTH (m) OUOU OUOU OUOU OUOU OUOU OUOU OUOU O	### ASTOPH SOLVAIR 167 1 149 40 160 17 17 17 17 17 17 17 1	STATION TO IN IGANT I	ME VEAK LIVIO 25 196 MICO M M VICE VICE VICE VICE VICE VICE VICE VICE	CRUST STU NO NO NO NO NO NO NO N	VIL	DEPTH DEPT	MALE MARIE M	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MESERANCE 35 11 15 8 1 1 1 1 1 1 1 1 1	SSENCE 1/10 1 125	САST С Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н	A**DE STD BS STD	DEPTH (m) 0000 0000 0010 0020 0020 0049 0010 0150 1150 1150 1050 1050 1050 105	##ASSOLN 10° 1 14° 40° 10°	3571 3570 3573 3575 3575 3575 3575 3575 3575	ME VEAN 1,1/10 ME VEAN 1,1/10	CRUST STU NO NO NO NO NO NO NO N	VI VI VI VI VI VI VI VI	DEPTH DEPT	MALE STREET STRE	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MEFRENCE SI COO NO. CO	SSENCE 125	CAST C NO. 0	A**D 0 04 A**D 85 85 85 85 85 85 85 85 85 8	DEPTH (m) 0049 W DEPTH (m) 0000 0000 0010 0023 0030 0046 0050 0075 0091 0100 0125 0136 0150 0250 0250 0250 0356 0400	MASSDEN SQUARE 10°	\$174TION IN IGMIT 10 10 10 10 10 10 10 1	ME VEAK 1.1/10 1	CRUST STU NO NO NO NO NO NO NO N	VIL	DEPTH	MALE DEPTH	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MESERANCE 35 11 15 8 1 1 1 1 1 1 1 1 1	N 4 1 1 2 5	САST С 1 1/3/2 N 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A** D	DEPTH (m) 0000 0020 0020 0020 0050 00	NASCURE SOUARE 10°	STATION TO INCIDENT	ME VEAK LIVIO 25 196 MIN VICE VICE VICE VICE VICE VICE VICE VICE	CRUST STU NO NO NO NO NO NO NO N	VI VI VI VI VI VI VI VI	DEFTH CAN CA	MALE DIPH	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MEFRENCE SI COO NO. CO	SSENGE 125	САST 61 NO. 00 00 00 00 00 00 00 00 00 00 00 00 00	A**D 04 A**D 551D 855 D	049 H 0000 0000 0010 0020 0020 0020 0050 0050	##ASTOPH SOLVARE 10° 1 14° 40° 40° 14° 40° 40° 40° 40° 40° 40° 40° 40° 40° 4	3571 35706 3575 3638 3638 3638 3638 3631 3571 35726 3571 35772 63575 3631 3571 3572 6356 3561 3562 83532	ME VEAK LIVIO 255 196 MICO M M VICEL	CRUSS STAN NO.	No.	DEFTH SOLUTION S	MALE DIPH 1 1 1 1 1 1 1 1 1	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MESERANCE 35 11 15 8 1 1 1 1 1 1 1 1 1	N 4 1 1 2 5	CAST C NO. 0	A**DE	049 W DEFIN (m) 0000 0000 0010 0023 0030 0050 00125 0136 0150 0250 0250 0356 0400 0356 0400 0519 06074	MASSORM 10° 1 14° 40 16°	35710 3570 3573 3575 43599 36371 3638 3638 3638 3638 36375 3631 3571 35726 35563 3572 3552 3552 3552 3552 3552	ME VEAN (10) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CRUSS STAN NO.	NOMES NOMES	DEPTH CO NOTION CO N	MALE DIPPLY STATES OF THE PROPERTY OF THE PROP	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MESERANCE 35 11 15 8 1 1 1 1 1 1 1 1 1	SSENGI	CAST C NO. 0	A**D O 4 A**D STD BS 10 B	DEPTH (m) 0049 W 0000 0000 0010 0023 0030 0046 0050 00125 0136 0150 0250 0250 0356 0400 0356 0400 0519 0600 0800	MASSDEN SQUARE 10°	35710 S 7 7 3 5 7 3 5 7 3 5 7 3 6 3 8 3 6 3 8 3 6 3 8 3 6 3 8 3 6 3 7 3 6 3 8 6 3 6 6 3 6 6 6 6 3 6 6 6 6 3 6 6 6 3 6 6 6 6 3 6	ME VEAK LIVIO 3 STO 3 SIGMA-T 2459 2459 2463 2467 2463 2518 2607 2663 2645 2655 2677 2663 2667 2673 2673 2756	CRUMSI STAN NO.	NOMES NOMES	DEPTH 10 MO. SOLITION TO MO. OUT TO MO. OUT TO TO TO TO TO TO T	MALE DIP MAL	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MESERANCE 35 11 15 8 1 1 1 1 1 1 1 1 1	SSENGE 125	CAST C NO. 0	A**D A**D STD BSTD B	DEPTH Im)	### ASTOLIN SOUALE 197 1	3571 35706 3575 3638 3638 3638 3638 3638 3631 3571 35726 3572 3572 3572 3572 3572 3572 3572 3572	ME VEAK LIVIO 2 5 196 MICO M M VICE S10 3 SIGMA-T 2459 2459 2459 2459 2467 2468 2602 2643 26467 2657 2666 2673 2666 2673 2673 2670 2715 2715 2715 2715 2715 2715 2715 2715	Color Colo	No.	DEPTH O O O O O O O O O	MAL DIPPLIES TO THE PROPERTY OF THE PROPERTY O	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
MESERANCE 35 11 15 8 1 1 1 1 1 1 1 1 1	SSING 1/10 1/25 1	CAST C NO. 0	A**00	049 W 0000 0000 0000 0000 0000 0000 0000	##ASTOCH 10° 1 14° 40° 16°	35710 Day No Day	ME VEAN STORY MAN TO STORY MAN	Columbia State S	No.	No. Oberthe No. Oberth	04558V 04568V 04	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
REFERENCE 35 11 15 8	SSENGI	CAST C NO. 0	LD C C C C C C C	DEPTH (m)	MASSORM 10° 1 14° 40 10° 11° 14° 40° 10°	3571 3571 3573 3573 3573 3573 3573 3573 3573 3573 3573 3573 3573 3638	ME VEAK 1,1/10 225 196 1370 3	Color Colo	No.	No. Operink No. Operin	MALL SHEET	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12
REFERENCE 35 11 15 8	SSING 1/10 1/25 1	САST С НОС	04 A**D BS TD	DEPTH (m)	##ASSOLM 10° 1 14° 40° 10°	3571 3576 3573 3575 3575 3575 3575 3575 3575	ME VEAN LIVE OF TAX MAN LIVE O	Color Colo	No.	No. Oserink 14 14 14 14 14 14 14 1	MALE DIPPORT NO. 10 10 10 10 10 10 10 10 10 10 10 10 10	OBSI 5 OR 29 CIAL ATIONS	PO4-P	THER CODE	B 3	ноз-н	\$1 O ₄ -5	OO12

Table I.—Continued

REFERENCE			MARSDEN	STATION 1	IME		ONGIN	ATOR'S	T	DEPTH	MAX.		WAVE		- CLOUD	T			٦
		MGITUDE E	SQUARE	(GMT)	YE	AB C	SUIZE 3	TATION	\dashv	10	DEFTH	08	SERVATIONS	WEA THE	CODEZ	1		NODC	1
ND.	1/10	1/10 ~	10' 1'	MO DAY H				UMBER	_	воттом	S'MPL"		HGT NO SI	CODI	1177 8 44	i		NUMBER	
311158 IN 4	359 N 04	+014 W	149 30	09 11 1	128 19	67 0	10 01	3	- 1	4600	33	28	0		8 1			0013	1
			WA		VIND	BARO-	AIR TE	48. °C	VIS	NO.	***	CIAL					'		
			COLDS	TRANS. DIR.		METER Imbal	DRY	WET	COD	OBS. DEFTHS	OBSERV	ATIONS							
			CODE	00	200	359	222		8	18									
		_			1				_	••									
MESSENGI C.	AST CARD	DEFTH IMI	1 %	\$ *4.	SIGMA-	_t 5#	ECIFIC VOLU	με <u>₹</u>	A D	sou		0 7 ml/l	PO4~F	TOTALER	ND2-N	NO3-N	5104-5		
HR 1/10			1			- 1 1	HOMALT-ET	1	103	VELD	CITY	07	yg - at/l	Nto - 84		μg - αt/1	¥8 - 01/		
	STD	0000	2234	3566	2464		03305	. 00	00	152					1				_
128	' 08S STD	0000	2234	135663	2464			. '		152			,		•		'	'	
	STO	0010 0020	223 1 222 7	3566 3567	2465		03299			152									
128	085	0024	2226	35665	2467 2467		103293	. 00	66	152									
• • • •	510	0030	2088	3573	2510		028820	00	07	152 152									
128	085	0049	1766	35926	2608		02 002 0	, 00	,,	151									
- * *	STD	0050	1765	35 94	2610		019422	01	45	151									
	STO	0075	1746	3623	2636		01695			151									
128	085	0098	1728	36376	2652	-			•	151									
	STD	0100	1727	3638	2652	0	015543	02	31	151									
	STD	0125	1712	3635	2654		015485	02	70	151	76								
128	082	0145	1690	36326	2657					151	72								
	STD	0150	1681	3631	2658	0	015135	03	08	151	70								
128	085	T0194	1603	36171	2666					151									
	STO	0200	1591	3615	2667		014441			151									
128	012	0250	1500	3598	2674		013857	04	53	151									
120	OBS STD	0287 0300	1438	35865 3582	2679			0.5	٠.	151									
128	085	0378	1411 1304	35660	2681 2691	U	013301	. 05	21	151									
*20	510	0400	1303	3571	2695	0	012204	06	. a	150 150									
128	085	10467	1301	35 736	2698		012204	00	40	150									
	STO	0500	1256	3566	2701	0	011903	07	69	150									
128	085	0560	1165	35514	2707	•	011,0.		٠,	150									
	STO	0600	1078	3540	2715	0	010699	0.8	82	150									
	STO	0700	0887	3519	2731	0	009144			149									
128	085	T0746	0812	35119	2737					149	58								
	510	0800	0737	3509	2746	0	007682	10	65	149	38								
	STD	0900	0621	3505	2759	0	006422	11	36	149	08								
128	085	0936	0587	35042	2762					149									
	STO	1000	0545	3503	2767		005641			148									
129	STD	1100	0491	3500	2771	0	005250	12	51	148									
128	085 S TO	T1164 1200	0464 0456	34993 3499	2773		004074	1.0	0.3	148									
	STO	1300	0434	3499	2775		004976 004883			148									
	STO	1400	0416	3496	2776		004883			148									
128	085	T1424	0412	34961	2776	U	00-1030	4.3	, ,	149									
	STO	1500	0403	3495	2776	n	004853	144	4.8	149									
	STD	1750	0377	3494	2778		004796			149									
144	085	T1867	0367	34934	2779	•	, 0	•		1496									
	STO	2000	0361	3494	2780	0	004780	16	88	149									
144	085	T2336	0344	34948	2782					150									
	STD	2500	0333	3495	2784	0	004682	19	25	150									
144	088	2820	0313	34954	2786					1510	06								
	STD	3000	0303	3495	2786	0	004566	219	56	151									
144	085	T3312	0286	34939	2787					151	79								

Table I.—Continued

REFERENCE SHIP	LATITUDE	LONGITUDE 5	MARSOEN SQUARE	STATION TIME	YEAR	ORIGINA	TATION	OEPTH TO	MAX. DEPTH	OBSE	WAVE RVATIONS	WEA- THER	CLOUG		NODC STATION	
COUR NO. CODE	1/10			MO DAY HR.1	/16	NO. N	UMBER	10110M	S'MPL'S		161 FEB SE		8 4		NUMBER 0014	*
311158 IN	4407 N	04057 W	149 40 WAT	09 12 14	~	AR TEA	(P. YC]	NO.		<u></u>	-	l	0 14	ì	001	1
			COLOR	TRANS DIR.	MID ME	ETER ORY	WET COOK	DEPTHS	DESERV	A TIONS						
				20 5	20 2	37 239	206 8	14								
MESSENGI TIME	CAST CA	AO OEPTH (m)	1 %	5 %.	SIGMA-T	SPECIFIC VOLUM		30t		O2 ml/l	PO4~P #g = #1/1	10TA L-P	NO2-N		\$1 O4=\$1 pg - 01/1	H 2
HR 1/10	1 1	TD 0000	2216	3540	2449	0034488	110-	152			7, - 3	J	pg - 051	νθ - αr∖;	PQ - 0	-
14	7 '08	5 0000	2216 2205	35397 ¹ 3542	2449 2455	0034036	0034	152				'	'	'	,	ı
	S	TD 0020	2194	3545	2460	0033592		152	81							
14		S 0020 TO 0030	2194 2124		2460 2496	0030118	0100	152								
14		5 0043 TO 0050	2028 1947	35913 3597	2540 2566	0023583	0154	152								
	S	TO 0075	1735	3612	2631	001750		151	72							
1 4		5 0084 TO 0100	1687 1681	3 615 8 3 61 9	2645 2649	0015877	0247	151 151								
14	7 08		1650 1631	36219 3618	2659 2660	0014870	0285	151 151								
	5	TO 0150	1551	3603	2667	0014281		151	27							
14	7 08 5	5 T0154 T0 0200	1541 1502	36010 3597	2668 26 73	0013820	0392	151 151								
14			1475 1437	35933 3586	2676 2679	0013403	0460	151								
	S	10 0300	1375	3576	2685	0012987		150	92							
14 14			1375 1324		2685 2692			150								
14	5	TD 0400	1313 1298	3571 35701	2693 2696	0012401	0653	150 150								
	S	TO 0500	1139	3541	2704	001150	0772	150	041							
14		\$ T0589 TD 0600	093 7 0923	35101 3510	2716 2718	001020	. 0881	149								
14		TD 0700	0802 0744	3506 35045	2734 2741	000873	0976	149								
14	\$	0800	0666	3501	2749	000721		149	09							
14		TO 0900 S T0946	0549 0511	349 7 34955	2761 2765	0006012	1121	148								
	S	TO 1000 TO 1100	0496 0468	3496 3497	2767	0005509	1179	148								
	3					0005193	1222									
14	7 D8		0456		2 771 2772	0005192	1232	148 148								
14	7 08					0005192	1232									
REFERENCE	7 08	5 11144	0456	34971	2772	0005192		146	MAX.	1	₩AVE	WEA-	CLOUD		NOOC	
	7 D8		0456		2772 YEAR	ORIGINA CRUISE S			881	Dase	WAVE EVATIONS	WEA- THER CODE	CLOUD COOES		NOOC STATION NUMBE	N P
REFERENCE SHIP	JA TITUDE	S T1144	0456 MARSOEN SQUABE 10' 1' 149 31	STATION TIME (GMT) MO DAY HELD 09 13 12	2772 YEAR 7 196	ONGINA CRUISE S NO. N	LEOR'S FATION UMBER	146	MAX. OEPTN OF	OBS	RVA TIONS	CODE	COOES		STATION	N P
REFERENCE CTST ID. COOR NO.	LATITUDE 1/10	S T1144	0456 MARSOEN SQUARE 10' 1' 149 31 WAY COLOR	34971 STATION TIME (GMT) MO DAY HELI 09 13 12 ER WIN	2772 YEAR 7 196	CRUISE NO.	LTOR'S LATION UMBER LAP T VIS. WET CODI	146 DEPTH TO SOTTOM 4700	MAX. OEPTN OF S'MPL'S	OBSE OR 26	RVATIONS	CODE	TIPE AMI		NUMBE	N P
REFERENCE CTST ID. COOR NO.	LATITUDE 1/10	S T1144	0456 MARSOEN SQUABE 10' 1' 149 31 WAT	STATION TIME STATION TIME MO DAY HELT 09 13 12 ER WIN TEAN'S DUL 1	2772 YEAR 7 196 D BA FREID ON ME	ORIGINA CRUISE S NO. N	LTOR'S FATION UMBER	DEPTH TO BOTTOM 4700	MAX. OEPTN OF S'MPL'S	OBSE OR 26	RVATIONS	CODE	TIPE AMI		NUMBE	N P
REFERENCE SHIP CODE CODE CODE CODE CODE CODE CODE CODE	4358 N	S T1144	0456 MARSOEN SOUABE 10* 1* 149 31 WAT COLOR CODE	34971 STATION TIME (GMT) MO DAY HELD 09 13 12 EB WIN TEANS OUL 101 34 5	2772 YEAR 710 7 196 GHIO OICE MAI	ONGIN. CRUISE S NO. 7 010 015 ARD- AR TEA HORN BULE 90 183	ATOR'S FATION UMBER NP T VIS. WET CODE BULB 178	DEPTH TO BOTTOM 4700 NO. OBS. DEPTHS	MAX. OEPTIN OF S'MPL'S	OBS OBL 26	RVA TIONS	THER	5 8	NCo=N	STATION NUMBER	5
REFERENCE SMIP COOR CO	4358 N	S T1144 LONGITUDE - 1/10 04101 W	MARSOEN SQUARE 10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	34971 STATION TIME (GMT) MO DAY HEL 09 13 12 ER WIN TEANS OUL 1801 04 34 5	2772 TEAR 7/10 7 196 D	ORIGINAL	ATOR'S TATION UMBER OPT WET BULB T78 T09N, MA x 103	DEPTH TO BOTTOM 4700 NO. OBS. DEPTHS 14	MAX. OEPTN OF S'MPL'S 17 SPEC	OBSE OR 26	RVATIONS	CODE	TIPE AMI	NO ₃ =N No - oV/l	NUMBE	5
REFERENCE SHIP CODE CO	4358 N	S T1144 LONGITUDE	0456 MARSOEN SOUABE 10* 1* 149 31 WAT COLOR CODE	34971 STATION TIME (GMT) MO DAY HELD 09 13 12 EB WIN TEANS OUL 101 34 5	2772 YEAR 710 7 196 GHIO OICE MAI	ONGIN. CRUISE S NO. 7 010 015 ARD- AR TEA HORN BULE 90 183	NIOR'S (ATION UMBER WET CODI TO THE SULE ATI SAL SAL OUT	DEPTH TO BOTTOM 4700 OBS. DEPTHS	MAX. OEPTIN OSPEC SYMPL'S 17 SPEC OBSERV	OBS OBL 26	PO4=P	THER	5 8	NO3-N yg - ol/l	001	5
REFERENCE CIRT IO. COOR COO	4358 N	S T1144 LONGITUDE 1/1/10 04101 W DEFTH (6) 10 0000 5 0000 10 0010	0456 MARSOEN SOUAHE 10° 1° 1° 149 31 COLOR CODE 7 ° C 2269 2270	34971 STATION TIME (GMT) CGMT	2772 TEAR 710 7 196 D	OBIGINA CRUISE 5 NO. N ORON NO. N ORON NO. N AIR TEN STEE DAY SULE OO33134 OO33146	NTOR'S N	DEPTH TO BOTTOM 4700 NO. OBS. DEPTHS 14 153 153 153	MAX. OEPTIN OF S'MPL'S 17	OBS OBL 26	PO4=P	THER	5 8	NO3-N No - gv	001	5
REFERENCE CIRT IO. COOR COO	4358 N 4358 N CAST CAST TO SS S S S S T O SS	CONGRUDA	0456 MARSOEN SOUARE 10° 11 14° 21 14° 21° 10°	34 971 STATION TIME GMT TEMP TEMP	2772 TEAR TO 196 TO 196 SIGMA-T 2464 2464 2464 2464	OBGINI CSUE SOCIETY S	NIOR'S IATION WET ODD 178 7 At \$\frac{1}{2} \times \frac{1}{2} \times \frac{1} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \tim	DEPTH TO BOTTOM 4700 OBS. DEPTHS 14	MAX. OEPTIN OF S'MPL'S 17 SPEC OBSERV	OBS OBL 26	PO4=P	THER	5 8	NO3-N yg - ol/l	001	5
REFSENCE SHIP CODE	CASS CASS NO. 1710 S S S S S S S S S S S S S S S S S S S	S T1144 LONGITUDE 1/1/10 1 1 1/1/10 1 1/1/10 1 1/1/10 1 1/1/10 1 1/1/10 1 1/1/10 1 1/1/10 1 1/1/10 1 1/1/10 1 1/1/10 1 1/1/10 1 1 1/1/10	0456 MARSOEN SOUANE 10° 1° 1° 1° 1° 1° 4° 21 1° 0° 00 1° 0° 0° 00 1° 00 1° 0° 00 1°	34971 STATION TIME MO DAY MEL OP 13 12 E8 William TEAN DU 34 5 3578 3578 3578 3579 3580 35797 3580	2772 T 196 T 196 SIGMA-T 2464 2464 2464	OBGINIO 1	ATION'S (ATION UMER (ATION UM	148 DEPTH TO BOTTOM 4700 NO. OBS. DEPTHS 14 SOUVELD 153 153 153 153 153 153	MAX. OCEPTN OF TO	OBS OBL 26	PO4=P	THER	5 8	NO3-N No - eV	001	5
REPERIOR SHIP COOR ST 1158 TN	Umruos 1/10 4358 N 4358 N CAST CAS	S T1144 LONGITUDE 1/1/10 O-101 W DEFIN (w) TD 0000 S 0000 S 0002 TD 0020 S 0042 TO 0050	0456 MARKSOIN SOUALE 16" 149 21 149 21 160	34971 STATION TIME STATION TIME	2772 TEAR 710 7 196 SIGMA-T 2464 2464 2464 2464 2464 2464 2464 24	ONGINIA (CAUTE) CAUTE CAUT	NIOR'S (ATION UMBER) NY T WIT (ATION UMBER)	DEPTH TO NO. OBS. DEPTHS 14 153 153 153 153 153 153 153 153 153 153	MAX. OPPTIN OPPTING TO SPEED OBSERV 17 SPEED OBSERV 1001 001 001 000 000 000 000 000 000 0	OBS OBL 26	PO4=P	THER	5 8	NO3-N yg - al/l	001	5
REPERIOR SHIP COOR ST 1158 TN	CAST CA	S T1144 LONGITUDE 1 1/10 5	0456 MARSON SOUME 10° 1 14° 21 14° 21 14° 21° 1 14° 21° 12°	34971 STATION TIME STATION TIME OF 131 12 25 E	2772 YEAR 7 196 8461 15 1 SIGMA-T 2464	OBGINITE STATE S	ATION'S IATION UMBER IATION UMBER IATION UMBER IATION UMBER IATION	1488 DEPTH 1	MAX. DEPTIN OF SYMPLIS 17 SPECOSSERV 3001 SO1 SO1 SO1 SO1 SO1 SO1 SO1 SO1 SO1 SO	OBS OBL 26	PO4=P	THER	5 8	NO3-N Ne - ot/1	001	5
REFSERNCE SHIP CODE	CASS CA	S T1144 LONGRUDE 1 1/10 O4101 W DEPTH (m) 7 1/10 S 0000 S 0000 T0 0010 TD 0020 S 0022 T0 0030 S 0042 T0 0050 T0 0050 T0 0050 T0 0050 T0 0050	0456 MARSORH SOUARE	34971 STATION TIME TOTAL TOTAL	2772 TEAR TO 196 TO 196 SIGMA-T 2464 2464 2464 2464 2488 2524 2524 2612	ONGINIA (CAUTE) CAUTE CAUT	NORS IATION UMBER VIS	1488 DEFTH TO DEFTH TO OSS OSS 153 153 153 154 155 156 157	MAX. OEPFIN OF STAPP. S	OBS OBL 26	PO4=P	THER	5 8	NO3-N vg - ol/1	001	5
REFSERNCE SHIP CODE	CAST CA	CONGREDIT	0456 MASSOIN GUARE 16" 14" 21 14" 21 14" 2269 2270 2272 2218 2132 2047 1834 1767 1730 1668 1656	34971 STATION TIME STATION TIME	2772 TEAR TEAR TO 196 TO 196 SIGMA-T 2464 2464 2464 2464 2464 2464 2464 2464 2464 2464 2464 2464 2464 2464 2464 2465 2612 2639 2656	ONGINITE	NORS IATION OWNER OWNE	148 DEFTH TO NO. 05195 152 152 152 151 151 151 151 151 151 15	MAX. OPERIN OF STREET OF S	OBS OBL 26	PO4=P	THER	5 8	NO3-N ys - 0//	001	5
REFSERNCE SMIP COOR	CAST CA	TO DEFIN (a) TO 0000 TO 0010 TO 0020 TO 0010 TO 0000 TO 0010 TO 0000 TO 0010 TO 0000 TO 0010 TO 0100 TO 0100 TO 0150 T	0456 MARKSON SOUME 10 1 149 21 COUDD COUD CO	34971 STATION TIME OF OAT HELD OF OAT HELD OF OAT HELD OAT OAT HELD OAT OAT HELD OAT OAT HELD OAT OAT OAT OAT O	770 Tender of the control of the con	OBGINA CAUSE SACRET VOLUME SACRET CAUSE SACRET VOLUME SACRET CAUSE C	NION'S ATION OWNER OWNER	148 DEFTH TO DEFTH TO	MAX OFFINA (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	OBS OBL 26	PO4=P	THER	5 8	NO3-N ys - el/1	001	5
REFSENCE SHIP CODE	CASS CA	S T1144 LONGITUDI 1 1/10 O4101 W O4101 W DEFIN (m) T0 0000 S 0000 T0 0010 S 0022 T0 0030 S 0042 T0 0050 TD 0075 S 0086 TD 0075 S 0086 TD 0100 TD 0150	0456 MARSON SOUME 10° 1° 1° 1° 1° 1° 1° 1	34971 STATION TIME STATION T	2772 YEAR YEAR 70 96 0	ONGINITE	NIOR'S (ATION UNKER OF THE NULL OF THE NUL	148 DEPTH TO HO HO HO HO HO HO	MAX. OEPTIN OF THE PROPERTY OF	OBS OBL 26	PO4=P	THER	5 8	NO3-N ys - ol/1	001	5
REFSERNCE SHIP CODE	CAST CA	S T1144 CONGRUCT	0456 MARSORH SOUAH	34971 STATION TIME ON ON ON ON ON ON ON ON ON	771 196 115 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OBGINION	ATOR'S IATION UMBER IN TO WET BULE OTHER	148 DEFTH TO NO. 15. 150 DEFTHS 179 NO. 15. 150 DEFTHS 150 151 153 153 153 153 153 153	MAX. OEFFIN OF THE PROPERTY OF	OBS OBL 26	PO4=P	THER	5 8	NO3-N ys - e//	001	5
REFSERNCE COOR SMIP COOR	CAST CA	S T1144 CONGRUENT 1/1/16	0456 MARSORH SOUAH	34971 STATION TIME	2772 TEAR TE	OBGINA O	NION'S ATION OWNER OWNER	148 DEFTH TO MO T	MAX. OEFFIN OF THE PROPERTY OF	OBS OBL 26	PO4=P	THER	5 8	NO3-N ys - e//	001	5
REFERENCE Cool Co	- 4358 N 4358 N 4358 N 4358 N Cast N 7	S T1144 LONGITUOL 10 1/10 O4101 W O4101 W O4101 W DEFIN (6) T0 0000 S 0000 T0 0010 S 0022 T0 0030 S 0042 T0 0050 S 0042 T0 0050 S 0042 T0 0050 S 0086 T0 0170 T0 0100 T0 010	0456 MARSOIN SOUARE	34971 STATION_TIMM ONL	2772 **TEAR**	OBGINIA CHURCE CHURC	NIOR'S ATION ONE O	148 DEFTH TO MAN TO MA	MAX OFFIN NO SPEED NO SEED NO	OBS OBL 26	PO4=P	THER	5 8	NO3-N y2-0/1	001	5
REFERENCE CONT COOR CO	CASS CA	S T1144 CONGRUCT	0456 MARSORH SOURCE	34971 STATION TIME STATION TIME	2772 TEAR TE	OBGINIA OBGI	ATOR'S IATION WET CODE TYPE ALL FOR CODE OVER COD	148 OFFTH	MAX. OCETIV OSSERV 17 SPERV NO OSSERV NO OSSERV 1001 1003 1005 1004 10	OBS OBL 26	PO4=P	THER	5 8	NO3-N y2-0/1	001	5
REFERENCE CONT COOR CO	CAST CA	S T1144 CONGRUCT	0456 MARSORH SOURCE MARSORH SOURCE MARSORH	34971 STATION TIME OAY Feb OS OAY Feb OS OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY OAY	2772 TEAP TE	OBGINIA OBGI	NIOR'S (ATION LOSS) NET CONTROL OF CONTROL	148 OFFTH	MAX OFFIN OF STAPPS OF STA	OBS OBL 26	PO4=P	THER	5 8	NO3-N yg - 61/1	001	5
REFSERNCE COOR SMIP COOR	7 OB S S S S S S S S S S S S S S S S S S	S T1144 CONGRUCT S S CONGRUCT S CONGRU	0456 MARSON SOUARE 10° 1° 1° 1° 1° 1° 1° 1	34971 STATION_TIMM MO DAY PEL	27722	OBGINIA OBGI	ATOR'S (ATION MET AULA WET SULE FOR AULA ALL FOR AULA FOR AU	148 DEFTH NOTION 4700 NO. OLS. 153 153 153 153 153 153 153 153 153 153	MAX. OEFFIN OF STREET OF S	OBS OBL 26	PO4=P	THER	5 8	NG3-N yg - 6//	001	5
REFSERNCE COOR SMIP COOR	7 OB S S S S S S S S S S S S S S S S S S	S T1144 CONGRUCT S S S S S S S S S	0456 MARSORH SOURCE 149 21 149 21 2269 2270 2272 2272 2182 2192 2192 2192 2192 2192 2192 2192 2192 2192 2192 2192 2192 2192 2192 2192 2192 2192 2193	34971 STATION_TIMM ONL	2772 TEAR TE	OBGINIA (1986) OBGINIA (1986) OBGINIA (1986)	NIOR'S (ATION) (ATIO	1480 OLUTH TO BOTTOM TO MOTO MODILING TO SOLUTION TO	MAX OEFFIN OF STREET OF ST	OBS OBL 26	PO4=P	THER	5 8	NO3-N yg - 0//	001	5
REFISENCE COOR COOR	CAST CA	S T1144 CONGRUCT	0456 MARSORH SOURCE WAT 149 21 WAT COLOR COLO	34971 STATION TIME STATION TIME	2772 TEAR TO TEAR TO TEAR TO TO TE	OBGINIO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NIOPS NIOP	1480 OLUTH TO BOTTOM TO MOTO MODILITY TO SOLUTION TO	MAX. OEFFIN OF STANDARD OF STA	OBS OBL 26	PO4=P	THER	5 8	NO3-N ys - 0//	001	5

1315 1365

0005054 0004985

0004879 1414 0004820 1463

\$**1**0

STO

0406 0387

Table I.—Continued

REFERENCE SHIP	LATITUDE	FONGITUDE PARTY	MARSDEN	STATION TIME	YEAR	ORGINATO	UDN		MA3 DEPTH OF	DBSE	WAVE RVATIONS	WEA-	CLOUD		5	NODC TATION	
CODE NO.	1/10 4353 N	04105 W	\rightarrow	MD DAY HE1 09 14 12		NO NU	-	#D110M	5'MPL'S		2	CDDE	ITPL AMT			0100	
1 1	'	1 1	WA		D BAR			NO. 085.	SPEC	IAL	1 1	1	, ,	'	1	'	
			CDDE	(m) DIR.	01ct (mb	a) BULB B	39 8	OBS. DEPTHS	DBSERVA	TIONS							
MISSINGE	CAST CAR		T			SHORE VOLUME	, 1	SOU			PO4-P	10141-2					Ţ
MESSINGE TIME OF MR 1/10		DEPIN UNI	1 6	\$ *4.	SIGMA-1	ANOMALT-EIG?	X 103 ▼ □ D	VELO	CITY	0 2 m1/1	PB - 61/1	101AL-P	HO2-N µg - 01/1	NO 3 = N ye - et/t	\$1 D4=\$1 ug + 81/1	p N	ć
126	DBS		2217		2481 2481	0031495	0000	152					ı				П
	S T S T		2218 2219		2481 2481	0031548 0031600	0032	152 152									
126	DBS	0025	2219	35817	2480			152	93								
	S T S T	D 0050	2144 1906	3596	2503 2576	0029486 0022617	0094 0146	152 152	15								
126	08S S T		1906 1807		25 7 6 2622	0018318	0197	152 151									
126	08S ST		1731 1729	36368	2651 2650	0015706	0239	151 151									
	ST	0 0125	1670	3627	2656	0015229	0278	151	64								
126	DBS ST		1633 1628		2660 266 1	0014884	0316	151 151									
126	DBS ST		1547 1543		2669 2669	0014191	0388	151 151									
126	ST DBS	0 0250	1471 1413	3593	2677 2683	0013605	0458	151 151									
	ST	0 0300	1408	3584	2684	0013094	0525	151	04								
126	08S S T	D 0400	1306 1299	3568	2693 2694	0012338	0652	150 150									
126	08S S T		1186 1172		2704 2705	0011460	0771	150 150									
126	DBS ST	0588	1012 0993	35260	2715 2718	0010289	0880	150	08								
	ST	0 0700	0845	3515	2734	0008754	0975	149	63								
126	D85 S1		0738 0721		2745 2747	0007514	1 056	149 149									
126	S T DBS		0622 0559		2758 2764	0006509	1126	149									
	ST	D 1000	0549 0504		2765 2 7 69	0005791	1188	148 148									
12/	ST	0 1200	0467	3498	2772	0005158	1297	148	95								
126	0 B S S T	D 1300	0459 0439	3498	2773 2775	0004934	1347	148 149	00								
126	ST Des		0420 0411		2777 2 777	0004802	1396	149 149									
REFERENCE	T	E E	MARSDEN	STATION TIME		ORIGINATO) R*S	DEPTN	MAL.		W A VE	WEA-	cronp			NODE	
CODE NO. CODE	LATITUDE 1/10	FONGITUDE 500	10 1	STATION TIME IGMTI	/10	CRUSE STAT	ION ABER	ID IDTIOM	DEPTH DF S'MPL'S	DIA	WAVE EVATIONS	THER	TODES		S N	UMBER	
CODE NO. CODE	1/10	LONGITUDE 1988	10" 1"	MD DAY HR1	6 1967	DIO 017	ION ABER	#0110M 4700	DEPTH DF S'MPL'S	24 i		THER	CODES		S N	ATION	
CODE NO. CODE	1/10	17.19	10" 1"	MD DAY HR.1 09 15 12	0 1967	CRUISE STANO. NUA D1 O O1 7 O- AIR TEMP ER DRY V	ABER	10 10110M 4700 ND.	DEPTH DF S'MPL'S	24 .	HGT PER SEA	THER	TODES		S N	UMBER	
CODE NO. SNIP CODE	1/10 +353 N	17.19	10° 1° 149 31 WA	MD DAY HR.1 09 15 12 ER WIN TRANE DIR 5	6 1967	CRUISE STANO. NUA DIO 017 DIO 017 AIR TEMP ER DRY W	ABER	10 10110M 4700 ND.	DEPTH DF S'MPL'S 14	24 .	HGT PER SEA	THER	TODES		S N	UMBER	
CIEV ID. CODE 311158 IN 4	1/10 +353 N	04103 H	10° 1° 149 31 WA	MD DAY HR.1 09 15 12 ER WIN TRANE DIR 5	6 1967	CRUISE STANO. NUA DIO 017 DIO 017 AIR TEMP ER DRY W	ASER VIS.	4700 ND. DAS. DEPTHS	SPEC OBSERVA	24 .	HOT RE SIA	THER	TODES	ND3=N vg - ot/l	S N	UMBER	3000
CIPT ID. CODE ODD ND. CODE 311158 IN 4	* 1/10 +353 N	04103 W	10° 1° 1° 149 21	MD DAY HR.1 0 9 15 12 ER WIN TRANE DIR 5 10 5 %.	0 1967 0 BAR MET OS COME COME COME COME COME COME COME COME	CRUISE NO. NUA DIO 017 C- AIR TEMP ER DRY VIII BULE II 376011C VOLUME	ABER VIL.	ND. DEPTHS 14 SOUT VELDE 152	SPEC CONSERVA	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	ND3=N vg - et/1	SI Da-Si	OOL 7	300
CIEV ID. CODE 311158 IN 4	CAST CAPT TYPE	04103 W	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	MD DAY HR.1 0 9 15 12 ER WIN TEAME DIR. 3 10 24 5 5 4. 3577 35769 3562	10 26 BAR MET ON COLOR C	CRUISE STANOL NUMBER OF THE PROPERTY OF THE PR	NON ASER VIET VIET CODE ULB 7 2 A D DYN, M 2 10 ³ 0 0000	10 #0010M 4700 ND. OAS. DEPTHS 14 SOUIL 152 152 152	SPECONSERVA	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	ND3=N vg - 01/1	SI Da-Si	OOL 7	200
CIPT ID. CODE ODD ND. CODE 311158 IN 4	2710 +353 N	D 0000 0000 0000 0000 0000 0000 0000 0	10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	MD DAY HR.1 0 9 15 12 ER WIN TEAMS DR. 5 24 5 3577 35769 3562 3591 35946	100 BAR MILO MILO MILO MILO MILO MILO MILO MILO	CRUISE NO. NUM D10 017 D10 017 EE DIT VIII VIII VIII VIII VIII VIII VIII	VIL VIL COOK VIL VIL COOK VIL VIL COOK VIL V	10 MOTION 4700 NO. DAS. DEPTHS 14 SOUTH VELDI 152 152 152 152 152 152	SPEC OBSERVA	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO ₃ =N ν ₂ · σ//	SI Da-Si	OOL 7	3 0 0
CODE NO. CODE ODE NO. CODE 311158 IN 4 westerned He little 126	CAST CAST TYPE ST O 8S ST ST	04103 W 04103	10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	MD DAY HR.10 9 15 12 ER WIN TEMPS DR. 3 5 4 5 5 4 6 3 3 5 9 1 3 5 7 6 9 3 5 8 6 2 3 5 9 1 3 5 7 6 6 3 6 1 0	10 26 BAR MET ON	CRUISE STANOL NUMBER OF THE PROPERTY OF THE PR	NON ASER VIET VIET CODE ULB 7 2 A D DYN, M 2 10 ³ 0 0000	10 #0010M 4700 ND. OAS. DEPTHS 14 SOUIL 152 152 152 152	DEPTH DPT STARL S S S S S S S S S S S S S S S S S S S	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	ND3=N vg - al/	SI Da-Si	OOL 7	3000
311158 IN 4	CAST CAPTE NO. ST OBS ST DBS ST DBS ST	04103 W 04103	10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	MD DAY HR.1 09 15 12 ER WIN TWIL DR. 3 24 S 5 -4. 35 77 35 76 9 35 92 35 91 35 94 36 30 2 36 36	10 1967 6 1967 6 1967 8 1967 8 10 26 8 10 26 8 10 26 8 2 4 7 8 2 4 7 8 2 4 7 8 2 4 8 6 2 5 0 9 2 5 1 9 2 5 1 6 2 5 6 6 2 6 4 2 2 6 4 2 2 6 4 2	CRUIS STA-NO. D1 0 01 7 C. AR TEMP OF STATE ST	VIS.	10 MO	DEPTH OF STMPL'S 14 SPEC OBSERVA	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO3=N vs - el/l	SI Da-Si	OOL 7	3 0 0
311158 IN 4	CAST CART NO 1178	04103 W 04103	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MO DAY HELP OP 15 12 EF WIN TIME DR. 3 5 77 35769 35 91 35 94 36 36 36 36 36 36 36 36 36 36 36 36 36	100 1967 5 1967	CRUIS STANO	VIL VIL CODE VIL VIL CODE VIL	10 HO	SPEC OBSERVA NO CITY 87 87 87 86 73 67 79 79 78 75	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	ND3=N v3 - 01/1	SI Da-Si	OOL 7	360
SIN SIN CODE CODE NO. CODE NO.	CAST CANT OBS ST DBS ST OBS ST	D DEFIN (m) D 0000 D 0010 D 0020 0020 0023 0046 D 0050 D 0075 0093 D 0100 D 0100 D 0100	1149 21 149 21 149 21 1 T 2214 2214 2224 2224 2141 2175 1765 1765 1768 1773 1788	MO DAY WALD MO DAY WALD MO DAY MALD MO DAY MALD MO DAY DAY MO DAY	1967 0 8.6 PM 1967 10 10 10 10 10 10 10 10 10 10 10 10 10	CRUIS STA-NO. D1 0 01 7 C. AR TEMP OF STATE ST	VIS.	10 MO. OAS. DEPTHS 14 SOUNCELOID 152 152 152 152 151 151 151 151 151 151	DEPTH DF STMPL'S 14 SPEC OBSERVA	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO3=N v3 · a//	SI Da-Si	OOL 7	200
STEEL STEE	CAST CANT NO. 1718 ST OBS ST ST DBS ST ST OBS ST ST	04103 W 04103	10° 1' 149 21	MO DAY WELL DAY WELL DAY WELL DAY DAY	1967 0	CRUIS STANOL	TON VIETE VILL VILL VILL VILL VILL VILL VILL VIL	10 HO HOTOM 4700 NO. DAS. DEPTHS 14 152 152 152 152 151 151 151 151 151	SPEC DISERVA SPEC DISERVA 87 87 87 87 87 79 77 76 67 62	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO3-N v3 - al/l	SI Da-Si	OOL 7	3 C C
SIN SIN CODE CODE NO. CODE NO.	CAST CAME TO BE ST OBS ST	04103 W 04103	14 9 1 1 1 1 1 1 1 1 1	MO DAY WALD MAD	1967 1967	CRUIS STANO	VILE COORD (FEE COORD C	150 HO	DEPTH OF STAPLIS 14 SPICE OBSERVA	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	ND3=N y3 = 0//	SI Da-Si	OOL 7	200
SIN SIN CODE CODE NO. CODE NO.	CAST CARM NO. 1748 NO.	04103 W 04103	149 214 2214 2201 214 1985 1763 1768 1731 1689 1669 1561 16416	MO OAT WELD OAT	NO 1967 NO	CRUIS STANO.	VIL	No. OBS. No. OBS. No. OBS. No. OBS. OBS.	DEPTH OF THE PROPERTY OF THE P	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO3=N v3 ~ at/1	SI Da-Si	OOL 7	200
STEP D. CODY CO	CAST CANT CAST CA	04103 W 04103 W 0 0000 D 0000 D 0010 D 0020 0020 0030 D 0050 D 0050 D 0100 D 0100 D 0050 D 0100 D 01	149 214 2214 2214 2214 2214 12114 1985 1765 1763 1778 1689 1669 1561 1436 1397	Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Mo	7.00 9.70 19.07	CRUIS STANO	Victor V	No. No.	DEPTH OF STAPLYS 14 SPEC DISERVA 87 87 887 887 887 887 887 887 887 887	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	ND3=N v3 - et/1	SI Da-Si	OOL 7	3 6 6
STEP D. STEP D. CODY D. CODY	CAST CANT CANT CAST CANT CA	04103 W 04103 W 0710 W	1 T	Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Mo	710 1967 26 1967 26 1967 26 27 27 27 27 27 27	CRUIS STANO.	T VICTOR OF THE CONTROL OF THE CONTR	NO. DAS. NO. NO.	DEPTH OF THE PROPERTY OF THE P	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO3=N vp = at/1	SI Da-Si	OOL 7	200
STEP D. CODY CO	CAST CAMAN TO BE STORY S	04103 W 04103 W 0 0000	14 9 1 1 1 1 1 1 1 1 1	MO DAY WALD MAD	710 1967 20 1967 20 20 20 20 20 20 20 2	CRUIS STAN NO. DOT NO. NO. DOT NO. N	Victor	No. No.	DEFTH OF STREET	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO_3=N vg = at/1	SI Da-Si	OOL 7	700
STEP D. STEP D. CODY D. CODY	CAST CANT CAST CA	04103 W 04103	149 214 2214 2214 2214 12114 1985 1765 1763 1778 1689 1669 1561 1541 1436 1397 1320 1287 1173 1110	MO JAY WLD MA MA MA MA MA MA MA M	700 1907 200 1907 200	CRUIN STANO	No.	No. No.	DEPTH OF STATES	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO ₃ =N v ₃ = et/1	SI Da-Si	OOL 7	200
STEP D. CODY D. CODY	CAST CANT AND CAST CANT CAST CANT CAST CAS	04103 W 04103 W 0 00000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 00000 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000 0 000000	1 T COLOR CO	No.	700 9-7	CRUIS STAN NO. DOT NO. NO. DOT NO. N	T VIL	No. No.	DEPTH OF SWALLS 14 14 14 15 14 15 15 16 17 17 17 18 17 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO ₃ =N v ₃ = et/1	SI Da-Si	OOL 7	300
STEEL STEE	CAST CANT CANT CAST CANT CA	04103 W 04103	149 1214 2214 2201 2141 2114 1985 1705 1705 1705 1705 1377 1320 0885 0885 0885 0711	Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Mo	700 3-1-1 1907 19	CRUIS STANDER TOP	No.	150 150	DEPTH OF SWITCH 14 SPICE OF SERVE 14 SPICE OF SERVE 14 SPICE OF SERVE 15 SPICE OF SE	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	ND3=N v3 - et/l	SI Da-Si	OOL 7	200
STEP D. CODY D. CODY	CAST CANADA STATE OF	04103 W 04103	1 T	Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Mo	700 1967 196	CHAPTER STANDS	Control Cont	1500 1500	SPIC OF SERVA SPIC O	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	ND3=N v3 - el/l	SI Da-Si	OOL 7	700
STEEL STEE	CAST CAMBO TO BE STORED TO BE S	04103 W 04103	14 9 1 1 1 1 1 1 1 1 1	Mo Joy Wall Mo Joy Wall Mo Joy Wall Mo Joy Wall Mo Joy Mo	700 9-70 1	CRUIN STAN NO. N	No.	No. No.	SPECONSTRUCTOR SPECON	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO ₃ =N y ₃ - et/l	SI Da-Si	OOL 7	300
STEEL STEE	CAST CANT CAST CA	04103 W 04103	149 1214 2214 2201 12141 2114 1985 1705 1705 1377 1320 0885 0881 0711 0592 0586 0530 0465 0479	No.	700 1907 190	CRUIT STANDS TANDS TAN	No.	150 150	NO SHICK NO	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO3=N y3 - et/1	SI Da-Si	OOL 7	700
SAUTO SAUTO COOK NO. COOK NO. NO.	CAST CAMADO TO THE PROPERTY OF	04103 W 04103 W 0710 W	' \tau	Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Wall Mo Jay Mo	700 9-70 1	CRUIS STAND CRUIS STAND CRUIS STAND CRUIS CRUI	No.	No. No.	NOOTS 14 SPICE 87 SPI	DIR 1	PO _a =P	TOTAL-F	CODES 1991 AM) 4 7	NO3=N y3 - et/1	SI Da-Si	OOL 7	700

Table I.—Continued

FERENCE	SHIP	LATITU	06	LONGIT		5 7	MARSOE	1	STATION TO		YEAR	_	RIGINA			OEFTH TO	MAX. OEPTN	0		AVE		VEA-	CLOUG			HODE
IT ID.	COOF	•	1/10	LUNGII	1/10	5월L			MO I DAY IH			CRUISE NO.	\$1 N	ATION	Į	BOTTOM	S'MPL'	1		T PEP 1		000	TYPE AM		,	TATION
11158	IN	4358		0411			49 3		09 16 1		967	010	018			4600	15	34					7 4			0018
	' '		'			- 1		WAT	ER W	IND	BARG	,	R TEN	P °C	Τ'	NO.			٦'	1 1				•	1	
								LOR	TRANS DIR.	THED.	METE	R 0	ty	WET	COD		OBSERV	CIAL	s							
							-	,,,,,	34	SO3	2 0		_	156	7	14			+							
			_			-1			1		1				Ι.	\Box			4			_				
	MISSENG	M NO.	CARC		EPTH wm	N	τ "¢		s */	SIGM	A-T	SPECIFIC		;	A 04	. SOL	OCITY	Oşml		PO4~7	1DTA		NO 2-N ug - at/l	NO3-N ug + at/l	\$104-\$4 \lo - gu	p Ni
	HR 1/10	'	SŤ	0	0000	-	222	3	3590	248	15	0031	064	-	000	152	91		+		+	-		_		_
	1 20	5	085		0000	i	222		35897	248		0031		1		152			- 1			-	!		ı	
			ST		0010		222		3590	248		0031	106	0.0	31	152										
			ST	0	0020		222	2	3589	248	15	0031	141	0.0	062	152	94									
	12	5	085		0025		222		35893	248	15					152	94									
			ST	0	0030		215	6	3593	250		0029	153	0.0	92	152	79									
			ST	O	0050		193	3	3606	257	6	0022	585	01	44	152	224									
	12	6	085		0051		192	4	36068	257						152	221									
			ST	0	0075		179	7	3613	261	. 6	0018	901	01	96	151	190									
			ST	0	0100		169	2	3619	264	6	0016	105	02	240	151	164									
	12	6	085		0103		168		36195	264						151										
			ST		0125		162		3612	265		0015			279	151										
			5.7		0150		156		3605	266		0014	505	03	316	151										
	12	5	085		0154		156		36037	266						151										
			ST		0200		150		3557	267		0013	841	0	387	151										
	12	6	OBS		0206		149		35956	267						151										
			ST		0250		144		3588	267		0013			+55	151										
			ST		0300		139		3580	268		0013	036	0:	21	150										
	12	5	085		0308		138		35793	268						150										
			ST		0400		130		3570	269		0012	251	0.0	547	150										
	12	D	085		0409		129		35686	269		0011	400			150										
			51		0500		119		3553	270		0011	000	0	76 7	150										
	12	ь	085		0506		118		35519	270		0010	220			150										
	1.2		ST		0600		100		3528	271		0010	336	0.0	376	150										
	12	9	085 5T		0609		099		35258	271		0000	64.		771	150										
			5 T		0700 0800		083		3516	273		0008			971 050	149										
	12		085		0806		069		3508 35077	275		0007	21:	1.0	,,,,	149										
	12		ST		0900		060		35077	276		0006	354		117	149										
			5 T		1000		052		3502	276		0005			176	148										
	12	4	085		1007		052		35014	276		0000	791		0	148										
	. 2	_	51		1100		048		3500	277		0005	197	1:	229	148										
			51		1200		045		3498	277		0005			280	148										
	12	5	OBS		1261		043		34969	271		0000	002			148										
	. 21	-	ST		1300		042		3496	277		0004	995	1.3	330	148										
			ST		1400		040		3495	277		0004			378	149										
			ST		1500		039		3494	277		0004			26	149										
			085	~				2	34938	277		5501	. , ,			149										

Table II.—Observed and interpolated oceanographic data for stations taken by USCGC CHINOCOTEAGUE at Ocean Station DELTA, 22 September–10 October 1967, prepared from NODC listing No. 31–1171 CC.

REFERENCE CIRT ID. FOOE NO. 311171	CODE	LATITUE	0.5		1.	. :																						
root NO.	CODE					5.51	MARSI		STATIO	M TIM					ATOR	"S		PTH	MAX. DEPTH			A V E ra tidin:		WEA-	CLDAD			NDDC
-			1/10	LONGI	1/10	NOCT	SQUA					YEAR	CRUI		STATIO			TOM	S"MPL"	"		TERR		THER	TYPL AM			L A TIDN U M B E R
511171		4401		0405		٠,	10"	-	MD D/	2 1 I		957	01	_			45		14	34	_	3	- 30		8 6		_	0001
	CC	4401	14	0 40 3	.0 4	1.	۱, ۲,	WAI			ND	751	1	AIR TE	_		4		• •	1 .	٦,	-	- 1		1 - 1 -	1		
							-	COLOR	-	1	SPEED	BAR		DRY	W	VIS	L N		SPE	CIAL								
								CDDE	TRANS.	DIR.	FORCE	lmbi		BULE	81/1		DEP	PTHS	Cazena	A TION	,							
							- 1			34	S15	17	3	183	16	1 7	1	4			7							
ſ	MESSENGE									_		1			1	₹ △ 0	1				+		T					
	SMI	CAST ON P	CARC		DEPTH in	n)	1	10	5 "	4.	SIGM	A-1		FIC VOLT		DYN. A	w I	VELO		O2 ml		PO4-P 19 - 01/I		A L P - 01/I	NO2-N pg - al/l	ND3-N pg - at/l	\$1 Da=\$1 yg - 01/1	ρН
	₩# 1/10	-	C 7	_	0000		7.1	E 0	24.2	_	263	,	00	2712	,	0000		152	77		+		+	-			-	
	182	,	085		0000			58 58	362 362		252		00	2713	3	UUUL		152										
	102		51		0010			58	362		252		0.0	2719	7	0 0 2 7		152										
			57		0020			59	362		252			2725		0054		152										
	182	,	085		0024			59	361		252		-		-			152										
			ST		0030			152	362		256		00	24 05	9	0080		152										
	182		085		0048			106	363		263							151	91									
			5.1	0	0050	1	18	101	363	7	263			1703		0121		151										
			ST	0	0075		17	35	363	7	265		00	1570	1	0162		151										
	102		08\$		0096			85	363		26t							151										
			ST		0100			77	363		266			1473		0200		151										
			ST		0125		16	27	361		266	2	0.0	1470	8	0237	7	151	48									
	182	2	085		0145			6.1	361		2	-	0.0	1//3	,	037		161	27									
	100		ST		0150			04	361 359		266		00	1442	0	027		151										
	182		088		0196			97	359		267		0.0	1364	1	0343		151										
			ST		0250			25	358		265			1330		0411		151										
	182	•	085		0292			77	357		266				_			150										
	100		ST		0300			175	357		268		0.0	1306	0	0477		150										
	182	2	085		0386			15	356		269							150	185									
			ST		0400			97	356	2	269	0	00	1273	5	0606	5	150	81									
	182	2	OBS		0483	ŀ	11	58	353	85	269	9						150	144									
			ST	0	0500	1	1.1	.12	353		270		00	1129	9	0726		150										
	182	2	085		0576			31	352		273							149										
			ST		0600			194	352		273			0840		0824		149										
			ST		0700			155	351		275		00	0705	4	0902		149										
	182	2	082		0771			71	351		275			0.00		000		149										
			51		0800			39	351		276			0602		1024		149										
	107	,	085		0900			00	350 350		276		UU	0532	2	1024		148										
	182	-	51		1000			88	350		271		0.0	0487	B	1075		148										
			ST		1100			57	350		277			0480		112		148										
			51		1200			33	349		271			0474		117		148										
	182	,	065		1209			31	349		277		- 0		-			148										
		-	ST		1300			17	349		277		00	0471	2	121		148										
			ST		1400			09	349		277		0.0	0478	9	126	Ь	149	104									
	182	2	085	. 1	1450)	04	-08	349	51	277	6						149	12									

ID.	SHIP	LATITUD	E LC	NGITUDE	PNDC18	MARSD		STAT	ON TIA		EAR	CRUIS		TATION	\dashv	DEPTH 10	DEPTH OF	1 DE	WAV AVR32	nons	W EA-	CLOAD		S	NODC
ND			1/10	1/10	3	10"	1"	MO	AY HR	L1/10		NO	. 8	UMBER		MOTTOM	S'MPL	S DIR	HGT	A SEA	CDDI	TIPE AM	ř.		UMBER
171	CC	43580	N 04	+0570W		149	30	09 8	23 1	19 1	967	01	1 002	2		+572	15	35	2 3	3		3 6			0002
					, ,		WAT	ER	w	IND	EARD		AIR TEA	AP T	T-1	ND.	·		ı .	•				,	
						c	DLGA	TRANS.	DIR.	SPEED	METE		DRY	WET	CODE	DBS.		CIAL VATIONS							
						C	ODE	(m.)		FORCE	(mbs1	_	BULB	BULE		DEPTHS									
									03	\$05	163	3 1	183	156	7	14	}		}						
	MESSENGI			T				1						5	Δο	1	UND						NO N		
	11241	or NO.	TYPE	DEPTH	ml	1 1	C	S	•/	SIGMA	1-1	ANO	FIC VOLUM	7 D	103		DCITY	0) ml/		4-P - 01/1	FOTAL-P ug + ol/I	ND3-N +g - al/i	NQ3=N µg - al/l	SI D4-Si µg - a1/I	ρH
	HR 1/10					2.0	- 7		-	20.		0.0	2011						+	-+	-	-		1	-
			STO	0000		20		361		254		00.	25118	3 10	300		250							ļ.	ļ
	110	4	085	0000		20			16	254		0.3	3617		226		250 '								
			STO	001		20		361		254			25161		025 050		252 254								
		_	STD	00 20		20		361		254		00.	25204	+ 0	J > U										
	11	4	OBS	002		20		361		254		0.0	2200		074		254								
			STO	0031		19		36		257 264			22981 16394	-	114		237 181								
	,	0	SID	0051 0051		17			373	264		UU	10394	+ 0	114		181								
	11'	7	280	007		17		363		264		0.0	1621		155		181								
			SID	010		17		363		265			15521		194		176								
	11	2	082	010		17			364	265		00	1000:	, 0	4 7 7		176								
	11	7	\$10	012		16		36		266		0.0	1481		232		154								
			STO	015		15		36		266			14434		269		140								
	11		OBS	015		15			118	266		00	7447	+ 0.	LU 7		139								
		7	STO	020		15		361		267		0.0	1405		340		132								
	1.1	۵	085	020		15			041	267		00	140)	, ,	340		131								
	1 1	7	510	025		14		35		267		no	1354	1 0	409		114								
			510	030		13		351		268			1309		476		099								
	1.1	q	085	1030		13			788	268		•		, ,			097								
			SID	040		13		35		269		0.0	1225	0	502		088								
	1.1	ą.	065	T040		13			723	269		-					086								
			SID	050		11		35		271		0.0	1018	3 0	714		043								
	1.1	9	OBS	050		11			573	272		- 0					039								
			STD	060		09		354		274		00	0792	0 0	905		977								
	1.1	9	085	1060		0.3			392	274							975								
	- •		\$10	070		0.7		35		275		00	06 92	8 0	879	14	934								
			STO	080		06		35		276			0620		945		903								
	1.1	9	OBS	081		06			105	276							901								
			510	090	0	05	65	350	8 0	276	8	00	0541	9 1	003	14	886								
			STD	100	3	05	04	35	06	∠77	4	00	0486	3 1	054	14	875								
	1.1	9	085	T101	6	04	96	350	054	277	4					14	877								
			STD	110	0	04	73	350	0.2	277	4	00	04869	5 1	103	14	881								
			STD	120	0	04	50	34	9.9	277	5	00	0488	, i	152	14	888								
	11	9	085	126	9	04	36	34	773	277	5					14	894								
			510	130	0	04	30	34	97	277	5	00	04860	0 1	201	14	896								
			\$10	140	0	04	15	34	9.7	277	7	00	0478	0 1	249	14	907								
			STO	150	0	04	03	341	9.7	277	8	00	04730	5 1	2 7 6	14	919								
	1.1	9	085	T151	4	04	02	34	965	277	8					14	921								

ID. CDDE	LATITU	DE LO	NGITUDE S	MARS SQU	ARE	STAT	ON TI		YEAR	CRUISE ND.		ATIONS UMBER		DEPTH TD OTTOW	MAX DEPTH OF S'MPL"		DBSEA	CA VE		WEA THER CODE	COD	s		NODC STATION NUMBE
1171 CC	4410		1200H	149					1967	_	-		-1	4572	10	0					0			000
1111100				1 * * * 1	WA			VIND	_	_	AIR TEN			-	1		-	12	l	1	1 .		į	
					CDLOR	_		19810	MAR	· -	DRY	WET	VIL	ND. OBS.		CIAL								
					CDDE	(m)	DIR.	#01C	1-1-		ULA	BULB	COD	DEPTHS	DESERV	A BON	(2)							
							06	503	20	0 2	00	161	8	12			٦.							
				$\overline{}$		_	_	٠				Τ.	-	1								T	_	_
MESSENGI	CAST NO.	TYPE	DEFTH (m)	1	7	s	٠/	SIG	MA-1		C VOLUA	;' ō	∆ D N. M z 10 ³	. 50	DCITY	02 m	1/1	PO 4-		TOTAL-P				
HR 3/10	1					_								_				*6	"	μĘ = α1/1	PB - 01/	yg = e1	/ pg - dl	21
		STD	0000		036	361		2.5		002	4385	10	000		244		- 1					1	1	
12	5	085	0000		036	361		2.5							244									
		STD	0010		036	361		25			4396		024		246									
		510	0020		037	361		25		002	4407	0	049											
12	5	085	0024		037	361		25							249									
		510	0030		997	361		25		002	3312	0	073	15.										
125	5	OBS	0049		886	362		26						15										
		510	0050		882	362		26			0176		116											
		STO	0075		786	363		26		001	7023	0	163		189									
12	5	OBS	0097		715 710	363 363		26		0.01	5195		203		172									
		STD	0100					26																
125		STD 085	0125 0147	10	671	362 362		26	20	001	5042	. 0.	241	15	103									
12	,	510	0150		630	362		26	4.3	0.01	4710		278	1.5	154									
129		085	0197		551	361		26		001	4110	, 0.	210		136									
12	,	510	0200		544	360		26		001	3849		349											
		STO	0250		446	359		26			3081		417		109									
12	5	085	T 02 94		378	356		26		001	3001		41.1		93									
12		510	0300		374	358		26		001	2537	. 0	481		093									
12	5	085	0391		289	357		27		001				15										
	-	STO	0400		278	357		27		001	1560	0	601		076									
12	5	085	0491		144	355		27							042									
		STO	0500		126	354		27		001	0678	0	712											
125	6	085	10592		958	352		27							989									
		STO	0600		945	352		27		000	9470	0	813		986									
		STO	0700		799	351		27			7806		899		946									
129	5	065	0792		685	351		27						14										
		SID	0800		676	351		27		000	6553	0	971		914									
		STO	0900		576	350	7	27		000	5644	1	032	14	891									
125	5	085	10997	0.	502	350	24	27	71			-	-		376									

ID.	SHIP	LATITL	DE	LDN	GITUDE 5		SDEN	STAT	ION TH	ME	YEA		AUIS	ONGIN	STATIC		7	HTTS	MAX. DEPTH	08	WAVE SERVATIO	NS.	WEA-	CLDUD		s	NODC
ND.	CDDS		1/10		- 1/10 P ž	10*	7 1-	MD	DAY H	1/10			ND.		NUM		80	TTOM	S'MPL"	02	HGT FIE	SIA	CODE	TIPE AMI	ł		UMBER
171	cc	4400		04	100 W	149					196	57 [11	004	4		46	72	15	02	2 3	71		3 7			0004
	00			•			WA			IND	-			AIR TE		- 1	┿-	_	1.		12 12 1			1 21.	l		
							CDLOR	_	-	SPEEC		AETER	-	Det	WE	v		ND. DBS.	SPE	HAL							
							CODE	TOTAL S	DUL	1010		(mbs)		UL	801		ام	EPTHS	DRSERV	A HUNS							
									16	508	1	59	1 2	90	17	8 6	7	4									
	MESSENGI					1		1							Ь,	* ^	1	_			1	T					
	177	NO.	CAI	TE	DEPTH (m)	י (€	3	/.	SIG	M A -	T 3	AHOA	C VOLU	07E	DYN.	м.		DCITY	03 ml/	PO4=		014L-#	NO2-N ug - at/1	NO3-N ug - ot/f	\$1 Q4=\$1 98 - 81/1	ρН
	HE 1/10	-			0000	+-,	1 20	+-		-		-	_		\rightarrow	1 10	' -		-		74 14		4 - 4171	pg - 001	DE - 001	98 - 0071	
		J		0	0000		139			1					J		- 1				1						
	16	,	08	0	0000		139																				
				10	0010 0020		129																				
	16		06		0025		126																				
	10	,		10	0030		041																				
				ם	0050		767																				
	16	4	089		0050		767																				
	10	-		0	0035		641																				
				T D	0100		552																				
	168	4	0.65		0101		549																				
	• 0			ľρ	0125		518																				
				ΓO	0150		488																				
	164	3	065		0154		483																				
				10	0200		434																				
	168	3	085		T0208		426																				
			\$	ГО	0250		388																				
			S	T O	0300	1	347																				
	16	3	0.63	S	0309	1	340																				
			5	ΤO	0400	1	279																				
	160	3	06	S	0410	1	269																				
				0	0500		156																				
	16	3	OB:		0515		133																				
				0	0600		952																				
	168	3	OB:		0618		916																				
				0	0700		784																				
		_		0	0800		655																				
	16	•	08		10813		641																				
				0	0900		573																				
				D	1000		511																				
	16	5	0.6		1024		499																				
				0	1100		474																				
	1			0	1200		446																				
	16	5	08		T1281		427																				
				0	1300		423																				
				T 0	1400		407																				
	16	,			1500 11517		396																				
	10	9	0.6	3	1121/	U	395																				

Table II.—Continued

IO.	SHIP	LATITU	DE	LONG	TUGE		SDEN		ON TE		YEAR		INATO	-	١.	DEPTH	MAX.	085	WAVE ERVATIONS	WE		CLOUD			NODO	c
NO.	CODE		1/10		1/10	10"	1*		AY H			NO.	STATI		80	255011	OF S'MPL"	1	HGH PEET SI	THI	or l	TYPE AM			STATIO	BE
11171	CC	4402	N	0410	03 W	149	41	09 2	7 1	22 1	967	011 0	05		4	572	15	-	1 2	5:		4 8	 		000	ō
							WA	TER	w	INC	BARD	AIR	IEMP.			NO.		CIAL	, , ,	,				- 1		
							COLOR	TRANS	DIR.	17710	M ETES		W	€1 kco	DE D	OBS.	OBSERV	ATIONS								
							-	+	11	S20	068		17		+	14	_									
	MISSENGE	1				\neg	Ь	 	- 1		1		٠,		٠,	1	-					_				_
- 1	TIME 0	NO.	CAR		DEPTH (#	1	T TC	\$	٠/	SIGM	1-A	MICHE VO	110'	DYN.	М.	V€LO		02 ml/l	PO4=P	TOTAL-		NO3-N	HO3-N	SI D4-	Si a	ام
	NR 1/10		ST	0	0000		098	361	2	253	7	20241		x 10	_		_		99 - 41/1	#Q - B1	1	µg - el/l	h8 - 61/1	ye - 01.	/	_
I	122		085		0000		098	361		253		00261	ا ده	000	,	152										
			ST		0010		078	361		254		00257	42	002	4	152										
			ST		00 20		059	361		254		00253		005		152										
	122		085	,	0025		049	361		254			-	,	-	152										
			ST		0030	1	992	361	8	257	0	00231	4	007	5	152										
			5 T		0050	1	813	364	0	263	3	00172	41	0116	5	151	94									
	122		085		0050		813	363		263						151	94									
			51		0075		766	363		264		00163		015		151										
			ST		0100		710	363		265		00153	3 3	0198	8	151										
	122		085		0100		710	363		265						151										
	122		SI	_	0125		628	362		266		00146	57	0235	5	151										
	122		085		0149		574 574	361 361		266		00142		0271		151										
			ST		0200		542	360		267		00138		0271		151										
	122		085		0200		542	360		267		00133		0541		151										
			ST		0250		445	359		268		00131	2.2	0409	3	151										
	122		085		0296		379	358		268		00131	, ,	0+0	,	150										
			ST		0300		378	358		268		001264	7	0473	3	150										
	122		085		0394	1	313	357	59	269						150										
			ST		0400	1	305	357	4	269	7	00120	9	0596	5	150	85									
	122		085		0492	1	166	355	18	270	7					150	50									
			ST		0500		151	355		270		00110	57	0712	2	150	46									
	122		085		0588		989	353		272						150										
			ST		0600		966	352		272		00095		0815		149										
	123		51		0700		797	351		274		000784	8	0902	2	149										
	122		085 ST		0784		684	351		2754		00015	0			149										
			ST		09 00		66 7 57 7	351 350		2750		000656		0974		149										
	122		085		0980		521	350		2769		00057) 1	1035	•	148										
			ST		1000		514	350		277		000522	2	1090	1	148										
			Ş T		1100		480	350		2773		000522		1141		148										
			ŞΤ		1200		452	350		2775		000484		1191		148										
	122		085		1232		444	349		2775		_ 50.0-	-	/ 1		148										
			51		1300		429	349		2776		000478	8	1239	,	148										
			ST	D	1400		412	349		277		000473		1287		149										
	122		085	Ŧ	1487	0	401	349	61	2778	3					149										

REFERENCE CYRY IO.	SHIP	LATITUO	DE	LONGITUDE	158 W	ARSDEN QUARE	STATION		YEAR		NATOR	_	DEPTH	MAX.		WAVE		WEA-	CLOUD			NOOC
DE NO.	CODE	_	1/10	1/10	8 2 10			HR.1/10	IEAR	NO.	STATIO		#DTTOM	OF S'MPL"	_	HGT PER		CODE	TYPE AM			STATION
311171	cc	43500	N	041000W	14	9 31	09 28	122	1967	011 0	36		4572	15	35	1 3	-11.7		6 6		-	0006
						WA	TER	WINO	IAI	O- AIR T	EMP T	VIE	NO.		CIAL	' '		1	,	1	1	
						COLDE		1965	AA ET		W.E.	CODE	OBS.	OBSERV								
						5001	36	509	07		16		14									
		1					1 1	100,	-	177	+		-									
	MESSENGE TIME O	CAST NO.	TYPE	DEPTH L	m?	7 1	\$ 14.	SIGA	1- AA	SPECIFIC VOL	UME	SYN. D	. SOUI		D2 ml/l	PO+-		DTA L-P	NO3-N	NO3-N	SIO4-	Si pH
	HR 1/10	-	511	2000		22.2.	2.00	100				x 103	VELO			≥0 . e₁	^ ^	8 - 61/3	ug • at/l	µg - at/l	µ₽ - 01.	/1 1/7
	122		082	0000		2111	3608	25		002675	2	0000	152								Ī	
	122		ST			2111	36083	25		000.7			152									•
			ST			2113		25.		002676		0027	152									
	122		085	00 25		2113	3610 36104	25. 25.		002674	- 1	054	152									
			STI			2027	36104	255		002657		2070	152									
			ST			1754	3610	262		002457		0079	152									
	122		085	0050		1754	36098	262		001801	. 0	122	151									
			ST			1643	3609	265		001562	0 /	1164	151									
			ST			1562	3606	260		001411		1201	151									
	122		085	0100		1562	36064	266		001411	, ,	1201	151.									
			STO			1527	3603	267		001368	7 (0236	151									
			STO			1493	3599	26		001333		270	151									
	122		085	0153		1489	35983	26		001333	•	,,,,	151									
			STO	0200		1430	3589	268		001289	12 (1335	150									
	122		OBS	10209		1420	35873	268		00120		,,,,	150									
			STO	0250)	1382	3584	268		001241	8 (398	1508									
			ST	0300)	1340	3579	269	4	001207		1460	1508									
	122		085	0306	,	1335	35789	269	5				150									
			ST	0400	1	1270	3570	270	1	001162	2 (1578	150									
	122		280	0407		1262	35687	270	12				150									
			STO			1109	3542	271	0	001087	9 (691	150									
	122		280	0510		1091	35400	271	2			-	1502									
			5 T C			0917	3521	272		000929	6 0	791	1497									
	122		08\$	0612		0896	35187	272	9	_			1496									
			STO			0775	3515	274	5	000765	4 0	876	1493	37								
			STO			0660	3510	275		000646		947	1490									
	122		085	10812		0648	35093	275	9				1490)5								
			STO			0572	3504	276	4	000581	0 1	008	1485									
			510			0505	3499	276		000539	6 1	064	1487									
	122		085	1020		0494	34985	276					1487	76								
			STD			1472	3498	2 7 7		000511	7 1	117	1488	30								
			STO			1449	3498	277		000493	5 1	167	1488	8								
	122		085	T1282		0432	34981	277					1489	14								
			510			0429	3498	277		000478		216	1489	16								
			STO			0412	3497	277		000473		263	1490									
	122		SID			0400	3496	277		000474	0 1	311	1491									
	122		085	T1527	- (1397	34955	277	8				1492	1								

REFERENCE	_				_	-	MARS	DEN	1 A 12	ION T	IME.			ORIG	INATO	R'S		DEPTH	MAL		w	AVE	\top	WEA-	CLOUC	T		NODC
	SHIP	LATITU	DE	LON	GITUDE	£ 5	SQUA	RE	*101	GMT		16.4	LR	CRUISE	STAT	ION	\neg	TO	DEPTH	01	SERV	/A TIONS		THE	CODES	į.		HODC STATION NUMBER
TET ID.	COOE		1/10		1/10	2 Z	10*	1.	MO (AY H	R,1/10			NO.	NUA	BER	_	BOTTOM	S'MPL"			T PER 5	ĮĄ ,	.000	TTP: AM	1		
311171	1 CC	4356	ON	041	1030 W	1	49	31	09	30	124	19	67	011 0	07		- 4	4572	15	09	1	2	- 1		1 3	1	į.	0007
	1		'				[WA	TER	V	VIND		DARO	AIP	EMP.	2	VIE	NO.	SPF	CIAL]							
								COLOR	TRANS	Q1RL	SME	P A	METER (mba)	DAY		ET JLB	VIE VIE	OBS. DEPTHS	OBSERV		1							
							- }	COUL	Um r	17	SO		1 63				7	14			ł							
									<u> </u>	1,	30.	<u> </u>			1.	_	_	4			4		_			_	_	1
	MESSEN	CAST HO.	CA	20	DEFTH ((m)	Ť	70	,	٠/	SIC	MA-	.	SPECIFIC VO	LUME	DYP.	2 2	sou	JNO	O2 ml/	n l	PO4-P		A L - P	NO2-N	NO3-N		
	HR 1/1	о НО,	111	PE		·								ANDMAU	-1110-	į,	103	VELC	CITY		_	yg = et/l	#費	- g1/3	μg = q1/1	μg - s1/l	pp - et/	4 ·
			S	TO	0000	0		103	36			36		00262	11	00	00	157										1
	1 12	24	08:	s '	0000	o '		103		129		36					_	15										
				ΤO	0010			100	36			36		00262		00		157										
				10	0020			97	36			36		00262	11	00	52	152										
	12	2.4	0 B		002			96		107		37						157										
				TO	0030			015	36			665		00236		00		157										
				TO	0050			757	36			546		00160	03	01	1 /	15										
	1.2	24	08		0050			757 555	36	385		546 554		00152	4.4.	01	56	15										
				10	007			550	36			562		00146		01		15										
			9.6	TD	0100			580		050		562		00140	0,	01	,,	15										
	1.7	4		TO	012			553	36			566		00142	46	02	29	15										
				TO	015			519	36			572		00138		02		15										
	12	3.4	08		015			513		989		572			• •		•		115									
	1.4	. **		TO	0200			424	35			582		00129	87	03	32											
	1.2		08		T020			412		842		683							090									
		. •		10	025			379	35			687		00126	49	03	96	150	086									
				τo	030			338	35			591		00123	29	04	58	150	080									
	1.7	2.4	0.8		030			333	35	745	2	692						15	079									
			S	ΤO	040	0	1.	257	35	69	2	703		00114	42	05	77	15	068									
	1.	24	0.8	S	040	5	1	250	35	680		704							067									
			S	TO	050	0	1	065	35			713		00105	99	06	87		014									
	1.5	24	0.6		050			052		331		714							010									
				T O	060			887	35			730	1	00090	23	07	85		963									
	1.	24	0.8		060			874		165		731							959									
				TO	070			750	35			746		00075			68		927									
		_		TO	080			639	35			757		00064	32	05	38		899									
	1.	24	08		T080			631		060		758		00057		0.0	99		89 7 882									
				10	090			556	35			764					199 154		873									
	_			10	100			494	34	98 970		768 769		00053	24	10	, , 4		872									
	1.	24	08		101			487 465	34			771		00051	43	1.1	06		877									
				T 0	110 120			442	34			773		00049			57		885									
		24	08		1127			428	54	71	2	. , ,		3004	3,		,,,		005									
	1.	∠ →		TO	130			423	34	96	2	775		00048	42	12	0.6	14	893									
				TO	140			408	34			777		00047			54		904									
				TO	150			397	34			778		00047			02		916									
	1	24	08		T152			395		956		778		,	-				919									
	1.	٠,٠	00		. 152	•	•				-																	

	WAVE					WE		CLOUD			NOOC	
	ERVATIONS							CODES		}	STATION NUMBER	
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MISSING CAST CARD CAPTN (m) T \ \		IAL	IAL									
		TIONS	TIONS									
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No. No.											_	
No. No.	PO4-P 10	210 9	D 10	104-1	-P 10	TOTAL-	L-P NO	102-N	NO3-N	5104-5	is	s
STO Q000		03 ml/1	O 2 m//1	µg - 01/		48 - 41		g = 01/I	yg - at/l	ug = at/	/I pH	c
124	1				\rightarrow		-				_	\dashv
STO 0010 2013 34-90 24-67 0032830 0034 15225		- 1	- 1	1			- 1	- 1		1	1	11
STO												
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STO 1400 0416 3498 2777 0004713 1260 14907												
124 08S T1477 0405 34968 2778 14916												

SEFERENCE CTRY IO.	SNIF	LATITUE	DE 1/10	LONGITUDE 50	10°	ARE		ON T		YEAR			ATOR'S	4	1	TO TO	MAX. OEPTH OF S'MPL'	01	WAVI SERVAT	E NONS	WEA- THER CODE	CLOUD		3	NOOC TATION TUMBER	
311171	CC	43570		040590W	149					967	+	11 009			46	572	15	13	3 3		+	3 2		+-	0009	1
STITLE	100	43310	314	740370H	147	1		1.		707				_	4				٦ ١٠	·	1	1 - 1-		- 1		ĺ
						WA	_	_	SMEED	BAR		A IR TEA		vis		NO.		CIAL	,							
						COLOR	TRANS.	ORL	PORCE	MET		BULB	WET			EPTHS	OSSER/	A TIONS	i							
								20	504	20	7	200	172	7	†1	14		_	1							
					_		<u> </u>		4-	٠	1				٠,					-					1	\neg
	MESSENGE TIME	CAST NO.	CARD	DEPTH (m)	1	°C	5	٠	SIGA	AA-T		HOMALT-ET		SYN.	w i	VELO		Og ml/		4-P - 01/1	101AL-P	NO ₂ -N	NO3-N	SI 04-5	pN	è
	NR 1/10	<u> </u>			1_		\perp				_			x 103		7110	,,,,,,,		140.	4121	νg - #1/1	µg - a1/1	νg - αI/I	νg - α4/		
		1	STO			894			1												ļ					1
	135		085	0000		894	341	UQ	24.	370																
			STO			980																				
			STO			066	25.		24							152	16.7									
	135		085	0024		100	354		241			02720				152										
	120		510			991	356		25		U	027286	5			151										
	135	'	085	0046		736	360		26		0	017789				151										
			510			729 654	360		26		-	01594				151										
	135		085	0097		604	360		26			101) 741	,			151										
	100	1	510			600	366		26		0	01490	,			151										
			ST			570	360		26			01476				151										
	135		085	0146		545	35		26		•	.01 , .0.				151										
	633		STO			541	35		26		n	014422	,			151										
			STO			482	35		26			01330				151										
	135		085	10200		482		83			•		•			151										
	•		STO			395	35		26		0	01304	8			150										
	135		085	0294		324	35	5 8	26							150	173									
	•		STO			318	35		26		0	01266	L			150										
	135	,	OBS	0392	1	185	354	62	26	99						150	040									
			STI	0400	1	169	35	• 5	27	02	0	01152	2			150	35									
	135	,	085	0491	0	965	35.	254	27	23						149	75									
			ST	0500	0	936	35		27.		C	009334	4			149										
	135	,	0.85	05 89	0	711		944	27							148										
			ST1	0600	0	704	349	₹5	27		0	00790)			146	90									
			STI	0 0700		642	35	2	27		C	000665	3			148										
	139	5	085	T0777		598		344	27							148										
			ST			584	351		27			00584				148										
			511			529	351		27		0	100537	5			148										
	139	5	085	0984		492		998								146										
			STI			486	34		27			00514				148										
			STI			456	34		27			000493				148										
			STI			4 38	34		27		C	000495	3			148										
	139		085	T1228		4 35		960								148	366									
	135	•	085	14780	U	388	34	935	21	770																

NO.	CODE	4400	DE L	ONGITUOE	SQUARE												
	СС	4400	1/10			IGAITI	YEAR		TION	TO OEP	~	SERVATIONS	THER	TYPLAM			UMBER
			N O	4100 W	149 41	10 03 1				4572 1.		1 2	-	6 8	1		0010
			,• 0	4100 K	1 .		VINO T	A ID TEAR		, , , , , , , , , , , , , , , , , , , 	- - '	1. 1. 1	1	1 9 10	I	- 1	
					COTO		SPEED MET	Q-	WET COO	ONS. DACE	PECIAL RVATIONS						
					CODI	us) Dik	FORCE (mb	a) BULB I	IULE	OE51H2							
						15	510 11	9 206 1	94 7	13							
,	MESSENGE	CAST	CARD		7.1			SPECIFIC VOLUME	₹ ∆ D DYN, M	SOUND	Τ	, PO (=P	FOTAL-P	NO2-N	NO1-N	\$104-\$1	
	HIR T/10	NO.	TYPE	OEFTH (m)	1	\$ *4.	SIG M A -T	ANDMALY-1107	x 103	VELOCITY	0 2 ml	yo - 81/1	μg - e1/l	µg · at/1	ug - e1/8	ug = a1/	PH
ľ			STD	0000	1964	3435	2436	0035542	0000	15204						1	
- 1	125	5	085	0000	1964	34354	2436		1	15204	1	1		1	•	1	,
			STO	0010	2027	3508	2477	0031897	0034	15231							
			STO		2091	3561	2500	0029720	0065	15256							
	125	5	DBS	00 24	2116	35775	2506			15265							
	1.20		018		2025	3568	2538	0026120	0092								
	1,25		08S S10	0048	1808 1799	36126 3613	2613 2616	0018840	0137	15189 15186							
			STO		1701	3615	2641	0016503	0182	15162							
	125	5	085	0096	1639	36177	2658	0010303	0102	15147							
	14.		STO		1633	3616	2660	0014833	0221	15146							
			STO		1597	3623	2672	0013752	0256	15140							
	125	5	DBS	01 45	1567	36251	2680			15134							
			STO	0150	1560	3625	2682	0012854	0290	15133							
			STO		1485	3627	2700	0011253	0350								
	125	5	085	10203	1460	36274	2702		0.10.	15116							
		_	STO		1400	3610	2704	0011075	0406	15099							
	12:	>	08S 5T0	0290	1347 1340	35946 3591	2705 2703	0011202	0462	15084 15083							
	125	5	085	0384	1340	35599	2103	0011202	0462	15005							
	12.		STO		1209	3554	2701	0011615	0576	15050							
	125	5	085	0479	1024	35207	2709	5511017	0,,0	14994							
		-	STO		0938	3506	2712	0010542	0686	14964							
	125	5	085	0575	0703	34715	2721			14863							
			STO	0600	0692	3478	2728	0008981	0784	14883							
			S T D		0646	3497	2749	0007078	0864	14684							
	125	5	0.85	T0762	0617	35042	2758			14884							
			STO		0596	3503	2760	0006080	0930								
	1 24	E	\$10		0546	3501	2765	0005677	0987	14878							
	125	>	085	0956	0521 0502	34994 3498	2767 2768	0005430	1044	14877							
			STO		0465	3498	2771	0005202	1098	14677							
			STO		0433	3493	2771	0005131	1149								
	12	5	085	11200	0433	34927	2771	0007171	1177	14880							

Table II.—Continued

EFERENCE	SHIP	4 A TT***	Dr.	LONG	7.101	OCT.	MAR!	DEN	STATE	ON TI	ME			JGINAT			CEPTH	MAX		WA	VE	WEA-	CLOUD			NODE
ετ 1D. DE NO.	CODE	LATITU	1/10	LONG	17UDE	80	10*	12	MO D	5 MT)		TEAR	NO.	STA	TION		TO MOTTOM	0.0	1		A TIONS	THER	TYPE			NUMBER
311171	CC	4400		0410	00 W	\vdash	149			6 1		957	-	011		-	+572	16	26	1		+	4 8	+		001
			- 1			1	- 1	WA			IND	1	1	TEMP	r		NO.	_	_	1	[- [1	1 - 1-	1		
								COLOR		DIK.	\$7E10	#ARO	DR	Y	WET	CODE	OB5.	OBSERY	CIAL	ļ						
								CODE	LEP I		POICE	(mis)	aut.	_	ULS		DEPTHS			ļ						
										27	\$30	071	18	3 1	72	7	14			Ì						
[MESTENGA TIME	CAST	CARC	, [Ι.	τ	Τ.	- /	Ī		SPECIFIC V	OLUMI	\$	A D	SOL	/ND		Τ,	PO4=P	OTAL-P	NO2-N	NO3-N	SI 04-	
	HR 1/10	NO.	TIPE		DEPTH L	mΙ	l '	C	1,	·/	SIGM	^-1	ANOMAL	Y-1107	DAI	10 ³		CITY	03 ml/			wy - #1/1	ug = 01/8	μg = σ1/l	PB - 01	
1		-	ST	0	0000)	1	967	350	7	249	2	0 0 3 0	438		000	152	213		+	_					-
- 1	127	,1	085	- 1	0000			967	350		249				1	-	152			1	-					1
			ST	D	0010			767	351		249		00302	241	00	30	152									
			ST	D	0020)	1	967	351	3	249	7	0030	059	0.0	60	152	217								
	127	,	08\$		0026	5	1	967	351	50	249	8					152									
			ST	D	0030)	1	910	351	6	251		00284	488	0.0	90	152									
			S T	D	0050)	10	538	352	0	258	3	0021	946	01	40	151	127								
	127	,	DBS		0051	l	1	525	351	98	258	6					151	24								
			ST	D	0075	5	1.	273	350	1	264	7	0015	866	01	87	150	12								
			ST	D	0100)	10	146	349	2	268	3	0012	518	02	23	149	36								
	127	'	085		0102			34	349		268						149									
			51		0125			37	350		269		0011			53	149									
			ST	٥	0150			142	350		269		00114	458	02	82	149									
	127	'	085		0154			143	350		269						149									
			ST		0200			060	351		270		0011	072	03	39	149									
	127		085		0216			066	351		270						149									
			ST		0250			34	351		270		0010			93	149									
			STI	D	0300			83	351		271		0010	356	04	46	149									
	127		085	_	0309			73	351		271						149									
			511	D	0400		0.0	320	349		272	5	0009	060	05	43	149	₹0Z								
	127		085	n	0413			• • • •	349		272		0007	005												
	127		STI		0500			700	349		273		0007	445	06	28	148									
	127		DBS		0525			578	348		273						148									
	127		085	0	0600			535	349		275 275		0006	119	07	UZ	148									
	121		STI	n	0700			662	349		275		00060	0.05	07		148									
			ST		0800			05	349		276		00054		08		148									
	127		085		08 20			96	349		276		0005	7)7	06	24	148									
	121		STI		0900			84	349		276		00051	154	08	77	148									
			STI		1000			67	349		277		0005		09		148									
	127		085		1037			61	349		277		0004	,,,	99	٠,	148									
			STI	D	1100			46	349		277		0 0 0 4 8	ana	09	76	148									
			STI		1200			25	349		277		00047		10		148									
			STI		1300			09	349		277		00046		10		148									
	127		085		1310			08	349		277					-	148									
			ST		1400			198	349		277		00046	597	11	18	149									
			ST		1500			192	349		277		0004		11		149									
	127		085	T	1577			91	349		277					-	149									

EFERENCE	SHIP	LATITUD		ONGITUDE	- 100 A	SQUARE	STATION TI	ME YEA			ATOR'S	-	DEPTH	MAI. DEPTH	-	WA VE		WEA-	CLOUB			HOOC
87 ID.	CODE		1/10	1/10		0, 1,	MO DAY H		^* c	NO.	STATIO	: 1	10 BOTTOM			HGT PE		COOE	CODES			TATION
11171	CC .	+3550	N O	41050W			10 07 1		67 [011 01	2		4572	16		2 3	-		4 8	1		001
			•			WÄ	TER W	IND	BARO-	AIR TE	MP °C	J	NO.		IA L	, , ,	,		,		'	
						COLOR	TRANS DIR	SME ,	METER	DRY	WET	COD		OBZEXA	ATIONS							
							33	roret	081	178	150		14	-								
Γ.	users w.c.			T				1	Ť	1			1.	<u> </u>		_	1					
	MESSENGE TIME OF	NO.	TYPE	OEPTH I	(m)	1 10	\$ */4.	SIGMA-	-1 3	MCHIC VOLU	197	* 101 W	. VELC	DOUTY	02 ml/1	PO4-		A L - P	NO2-N #8 - 61/1	NO3-N	\$1 O4-51 yg - 01/1	g H
1	HB 1/10	-	STD	00 00	-	1958	3492	2483	-	003128		0000	-			ļ		-		Pg - 401	90 - 000	-
- 1	119	- 1	085	0000		1958	34921	2483	Ι,	003128	1 1	1000	152					ŀ				
	11,		STD	0010		1969	3500	2486		003100	9 (031	152									
			STD	0020		1980	3509	2490		003066		062	152									
	119		085	002		1987	35173	2495	,				152									
			STO	0030		1975	3523	2502		002956	e r	092										
			STO	0050		1875	3554	2552		002493		1147	152									
	119		085	005		1857	35570	2558				•	151									
			STD	007		1641	3555	2609		01951	4 (202										
			STO	0100		1449	3553	2651		001563		1246	150									
	119		085	010		1406	35520	2659					150									
			STO	0125	5	1329	3539	2665	(01429	7 (284	150									
			STD	0150		1248	3527	2672		001368		318	150									
	119		085	016		1222	35244	2675					150									
			STD	0200	0	1197	3528	2683	(01280	7 (385	150									
	119		DBS	T021:	5	1182	35290	2687					150	007								
			SID	0250	0	1117	3517	2690	(01226	1 (1447	149	985								
			STO	0300)	1033	3505	2695	(001178	9 (1508	149	966								
	119		DRS	032	1	1001	35012	2698					149	957								
			STD	0400)	0919	3501	2711	(001039	5 (618	149	940								
	119		D8S	042	9		35007															
			210	0500		0817	3501	2728	(000897	5 (715	149	918								
	119		D8\$	1053		0778	35013	2734					149									
			STD	0600		0718	3505	2745	(000736	7 (797	148									
	119		OBS	0642		0677	35055	2751					148									
			SID	0700		0605	3501	2758		000621		865	146									
			STD	080		0510	3495	2765	(000552	3 (1924	148									
	119		08\$	1085		0476	34934	2767					148									
			SID	0900		0472	3495	2769		000515		1977	140									
	110		STO	1000		0462	3496	2771	(000505	7 1	028	148									
	117		085	1076		0451	34970	2773		2001.05		070	148									
			STD	1100		0444	3497	2774		000485		078	148									
			STD	1200		0417	3495	2775		000475		126	148									
	119		0 B S	T1358		0398	3493 34928	2775	(000475	4 I	173	148									
	119		STO	1400		0389	34928		,	2006.00	, ,	221	146									
			STD	1500		0389	3492	2776		00480 00485		221	148									
	119		085	T16.2		0384	3492	2776	(00400	7 1	269	149									
	. 1 7		003	102		0 764	J-714	2110					149	, , ,								

IENCE	SHOP	LATITU	ne .	LONGITUDE	DEST	MARS	DEN	STATION	TIME		re a il		NGIN		\exists	DEPT	" DE1		085	WAVE	PONS	WEA	CLOU			NODE
	TODE		1/10	1/1	22	10*		MO DAY				CRUISE NO.		TATION UMBEI		10110	M S'M	PL'S			# 58A	COR				NUMBE
-	CC 4	357		04102		149		10 09			967	011	01		_	457	_+_	5		2 3			4 6			001
171	cc l.	, , , ,		74102 +	1	1277	WA		WIN		701	-	IR TEA			1	-	-		I- I-	ı	1	1 . 1-	1	1	
						-			-	MID	MARG	-	ORY I	WET	VIS.	NO.	1	SPECE ERVA								
							CODE	TRANS D	IR. I	ORCE	(mba		ULB	BULB	COD	DEPTH	IZ OH2	CKVA	HOMS							
						1		2		25	240	10	51	133	7	14										
г								+ +	-		Ь	_			. ^ -	╁	-1	_		T	T			T	1	Т
ľ	ALSSENGE TIME OF	CAST NO.	CARD	DEPTH	(m)	1	℃	5 1/6	.	SIGM	A-T	ANOW.	VDLU	;; i	YN M		COCITY) a m1/1	PO.	4-P 01/1	101AL=P +g = e1/1	NO2-N	MO3-1		
Ŀ	4# 1/10 T		****						_					-	R 103			_						Pg - 00	1 20	1
	1		STI				033	3580		253		0.024	580	7 0	000		5240									
	118		085	000			033	3579		253		202			027		5240									
			511				034	3580		253		0026			027		5242 5244									
			5 T I				336	3581		253		002	000	, (054		5244									
	118		OBS	002			980 980	3580 3588		253 255		0024	4964	5 0	080		52 31									
	110		085	004			839	3603		259		302	+ 70.		550		5196									
	118		51	-			819	3604		260		001	999	5 (125		5191									
			ST				677	3602		263		001			171		5153									
	118		085	000			593	3601		265							5131									
	110		ST				588	3601	-	265		001	507	5 (211		5130									
			ST				553	3600		266		0014			248	1	5123									
	118		DB5	014		1	518	3599	2	267	1					1 :	5116									
			5 T	015	0	1	506	3597		267	2	001	375	3 (283	1	5112									
	118		085	019	4	1.	409	3576	9	267	8						5086									
			5 T				400	3575		267		001			350		5084									
			5 T				327	3562		268		001	2 92	3 (416		5066									
	118		DBS	029			268	3555		269							5053									
			ST			1	264	3556		269	L	001.	229	3 (479	1	5053	1								
	118		0.85	039				3556																		
			ST				175	3555		270		001			1595 1701		5039 5006									
	110		51				044 041	3533 3532		271		001	יונט	, (101		5005									
	118		085	105			886 886	3532		272							4961									
	116		280				865	3513		273		000	903	4 (799		4954									
			5 T				653	3497		274		000			860		4887									
	118		085	107			538	3490		275				`			4854									
			ST				534	3492		275		000	6 05	7 (1946		4855									
			5 T				513	3496		276		000			004		4864									
	118		085	09			494	3498		276						1	4871									
			ŞT			0	492	3499		277	0	000	523	9 1	058		4872									
			ST	0 110	0.0	0	471	3498		277		000			110		4880									
			5 T				450	3498		277		000	497	0 1	160		4888									
	118		085	T12			442	3497		277				_			4892									
			5 T				431	3497		277			488		210		4897									
			5 T				413	3496		277		000			258		4906									
			5 T				395	3494		277		000	482	1 1	306		4915									
	118		085	T15) [0	395	3493	В	277	0					1	4915	1								

ERENCE				E MA	RSOEN	STATION T	IME	75.45	_	_	A TOR'S		DEPTH	MAIL		WAVE SERVATE) NS	WEA-	CLOUP			NODC SATION
ID. CODE	LATITU	1/10	LONGITUBE .	12 S		MO DAY		TEAR	CRUISE NO.		HOITAT		TO BOTTOM	OF S'MPL'S	l	THEY HE		CODE	TYPE AM			UMBER
11171 CC	4400		041000W	14			121	1967		014		-	4572	16	30	3 2	- 11-	_	3 6	1		0014
III/I CC	4400	Ola I	J41000#	114	1		WIND	1707	1	IN TEA		\vdash	_	1.0		12 15	I	1	1 3 0	1	- 1	
					COLO		SPE 10	- IAE	O	JRY I	WET	VIL		SPEC OBSERV	HAL							
					COOE	TRANS DIR	POIC	1 4		บ้เ	BULE	1	DEPTHS	OBSERV	A HON 1							
						29	518	29	1 1	76	150	7	14									
MESSEN						+	1		SMCINO		2	ΔΒ	1 .01	/NO		PO.	. I.	OTAL-P	NO2~N	NO3-N	5104-54	
	GE CAST	CARC		m)	1 10	s ./	SIG	MA-T	ANOM	ALT-FI	ji, 0	A 0 M .A'	VELO	CITY	02 ml/	1 101		29 - 01/1	NB - 81/1	98 - et/l	yg - 01/1	gH
BIL 1/	10	6.8	0000		1044	3545	2.5	21	002	747	-	000	157	217		+-	-			<u> </u>		-
Ι,	21	51	0000		1966	35451		21 21	002	1030	2 10	300	152			!	- 1		ı	l	I	ı
1.	21	085 5 T			1968	3548		23	002	750	2 0	028										
		5 T			1970	3551		525	002			355										
1.1	21	Des	002		1971	35528		26					152									
1.		51			1986	3559		27	002	723	5 0	082										
		51			2004	3583		40	002			36										
1.	21	085	0050		2004	35832		40					152	240								
		ST			1781	3592	26	04	002	0012	2 0	193	151	183								
		5 T	0 0100)	1623	3601	26	49	001	582	5 0	238	151	141								
1.	21	085	010	2	1613	36020	26	52					151									
		5.1	012	5	1570	3602	26	62	001	468	8 0.	276	151	129								
		5 T	0 0150)	1513	3597		71	0.01	390	2 0	312										
1.	21	D85	015		1503	35953		72					151									
		ST			1360	3571		84	001	2 7 8 1	1 0	378										
1.	21	085	T020		1349	35689		84					150									
		51			1328	3568		88	001			442										
	2.4	51			1292	3568		95	001	195.	2 0	503	150									
1.	21	DBS	030		1286	35676 3554		96 704	001			19										
	21	51			1193	35518	21	104	001	Lot.	5 0	31.9	150	145								
	21	085 51	0410 0 0500		1020	3532	2.7	119	001	002	7 0	726	149	207								
1	21	085	T 05 1		0978	35279		723	001	002		. 2 0	149									
1.	- 4	51			0757	3505		740	000	7941	6 O	316										
1	21	D85	061		0722	3501 é		742	550	. , *	. 0		149									
•		ST			0634	3500		753	000	668	8 0	889										
		ST			0550	3498		762	000			951										
1	21	085	1082		0532	34975		764				_	148									
_		51			0497	3497	27	768	000	531	6 1	007	148	857								
		5 T	0 100	0	0459	3497	27	772	000	498	1 1	059	148	858								
1	21	D85	104		0447	34962		773					148									
		5 T			0441	3496		773	000			108										
		5 1			0431	3496		175	000			156										
		5.1			0422	3496		776	000	4 61	+ 1	205										
1	21	085			0419	34964		776					148									
		5.1			0412	3496		776	000			253										
		ST			0402	3496		177	000	476	/ 1	301										
1	21	DBS	1159	6	0392	34957	27	778					14	710								

Table III.—Observed and interpolated oceanographic data for stations taken by USCGC ESCANABA at Ocean Station DELTA, 12 October–3 November 1967, prepared from NODC listing No. 31–1176 EN.

EFERENCE NO.	SHIP	LATITUE	DE LO	HGITUDE FE	MAR SOL	SDEN JARE	STATI	IT M	YE	Al	ORIGINAT CRUISE STA NO NU	TION	TO BOTTOM	MAX, DEPTH OF SMPL'S		WAVE ERVATIONS HOT PER SEA	THER CODE	CODES		51	NOOC TATION UMBER
31:17	- 57	435	100	1+057	14	d -d	1.1	. 4	1-2 1	157	012 001		4755		24	1 3		4 7	r		000
	,					WAT	R	w	IND	BARO	AIR TEMP	ZIV T	NO.	SPEC	TAL						
							TRANS.	DIA.	19510	METER	R DRY	WET CODE	DEPTHS	OBSERV							
						COOE	(86.)		FORCE	_		-	1	_	-						
						.7		23	S12	4 1	3 206	1 = 4 7	13								
	MISSENGE TIME HR 1/10	S NO.	CARD TYPE	DEPTH (m)		o" 1	s	-/	SIGMA	-1	ANOMALT-1107	₹ △ D 0YN. M x 10 ³	VELC	CITY	O 2 m1/1	PO a = P ug = u1/1 t	101A L=? ug - e1/l	NO7-N	NO3-N µg - 01/l	\$1 O4 - \$1 pg + 01/1	μН
			STS	0000	T	1 = = 7	23	н5	234	5	302540	7 000	u 13	228		}					1
	1.9	: 7	TIPLS	3,00		16-7	35	636	254	0				220							
		-	STO	00:0		19:4	3.5	50	234	3	0025171	002	5 15	1229							
	1-	12	O+ S	0015		1953	45	071	2 = 4	9				230							
			STO	0320		1,5	3 >	c7	254		JU25J71			230							
			SIL	0030		1952		50	د 5 S		0025035	5 007		232							
	1 8	: 2	18.5	00→5		19.1		-1U						5234							
			SIL	1000		1-22		- eq	2.57		0023145			5419							
			5 T			40.72		0.7	263		001000	7 017		5158							
	1 -	3.2	0.82	0047		ال ∠ ⇔1		10.						139							
			211			1000		0.5	250		001474			5135							
			SEC			1505		07	405		001+25	02+		512s							
	18	3.2	Ut S	01.27		15~+		071			2 : 1 2 - 1	2 026		5126							
			STI			544		07	267		0013-1	2 028		5120							
	1 -	4.0	06.5	T017 =		1514		026	267 267		001344	0 0 3 5		5110							
			STI			14/4		14 1562			001344) ()))		5102							
	1	42	na s	0221		1441		1502 164	255		001287	5 041		5074							
			S T (0250		1493		0024			001107	0 11		5042							
	1	4.2	JBS STI			1363		73	250		001253	9 045		508+							
	1	- 2	345	13331		1335		751			001200			5085							
	1	6.2	2.11			125-		73	26		001199	5 000		507 →							
	1	A ?	005	0+17		1270		5.7.				- 7 -		5075							
		82	04.5			1153		i = 8 :					1	5047							
	1	U _	ST			1141		47	27		001113	: 072	0 1	5042							
			ST			0 + 59		525	272		030371		4 1	4991							
	1	8.2	085			0879		15					1	4100							
	1		ST			0943		214	27		JJ0676	3 051	7 1	4903							
			ST			0772	3.5	512	274	43	000503		1 1	→ 952							
			ST			0702	3 :	507	27:	ó l	003733	1 107	8 1	4941							
			ST			0631	3.9	06	27	58	000554			4923							
			ST	1100		05≿1	3.5	503	2.76	55	000593			4917							
			5 T			04-1	5	00	2.71		000535	→ 126		+905							
	1	8?	nb S	T1295		0423	34	7	2.7	7 o			1	4873							

SHIP LATITU	1	GITUDE BOULDS	MARS SQU	ARE	STATION IGMT	TIME } HR 1/10	YEAR	CRUISE		OR'S TION MBER	0EI 1 101	O DEFT	1	WAVE SERVATIONS	THER CODE	CODES		5.7	ATION UMBER
	1/10	3/10	10*			-		1	_		1					6 9			0000
E4 441	2 N 0.	050	145		10 1→	001	1907				_	145	27	2 3	ţ	0 3	'1	-	0000
			- 1	WAT		WIND	BAR	o- ⊢—	IR TEMP	- V			CIAL						
				COLOR	1BANS DIR		1-4			WET CO	DEP	THS OBSER	ZHORS						
					\rightarrow	FOR	-		-	-	, ,								
				()4	2	51	1 4	73 3	36	144	1	4				_			_
ESSENGE CAST	CARD		١.	٤	5 %.	1	MA-T	SPECIFIC	VOLUM	OYN.		SOUND	O ml/	PO 4-P	TOTAL-P		NG3-N	SI O a - Si	ρН
TIME OF NO	TYPE	OEPTH (m)	'	-	3 '	310	,m=-1	ANDM	ALT-2107	x 10	3	AFFOCILA		μg = α1/I	μg = 81/9	νg - σι/ί	µg - 0t/1	μg - αI/I	
R 1/10			+ .	0 (25.33	1 -	515	1.	15243	33.	314	15201							
ι	510	3000		3.9	3521			()).	-7243	1 00.	201	15201		1	1	•	,		
301	OHS	0000		917	4520		515 519	0.0	7900	00.	, n	152Je							
	SID	0010		925	2327		525		7 340			15212							
	STO	0039		935				002	21340	, ,,	, ,	15214							
001	09.5	0024		740	3343		524	0.0	2001	1 00	н 2	15223							
	STD	0030		1962	3500		333	00.	-0011	. 00	0 2	15233							
001	230	0042		274	35 = 3		555	0.0	2420	01	3 1	15230							
	S T D	0050		1563	3594				17952			15156							
	STO	0075		721	3601		h26	00	11394	. 01	33	15125							
201	Ob S	0043		1572	3501		Up 3	20	144 %	. 02	- 6	15125							
	510	0100		1571	35)4		563					15121							
	SED	0125		1540	360?		557	00	1417	02	0 2	15115							
201	OHS	0143		1514	3549		072		. 175))2	6.7	15114							
	5.10)157		1512	3027		072	0.0	1375)) _	7.1	150 73							
30,	045	31 - 4		14.5	3352		579	0.3	1 32 01	0 03	6.5	15072							
	S.T.J	0200		14.7	32 K 7		>74		1269			10072							
	SID	0233		.371	1543		:c+J .o-1	30	1204	7 57	,,,	15003							
0.01	345	02 c		1344	3573		2532	20	1231	5 Ú4	0.0	15033							
	SITO	0200		1347			20+7	,,,	1-71	5 07		15085							
100	29.5	03 97		1302	5573 3571		u + 7		1_35	n //m	1 -	15002							
	STO	0400		12 7			27.19	0.0	1230	, 00	1 4	15032							
001	nas.	10402		1117	3540		711	. 1. 1	13-+	3 117	į s	15024							
	510	0000		1091			725	.50	10 14		4	14944							
001	055	0554		7445	3773		726	0.1	3431	- O.	24	14993							
	SET	0.30		0,40	3504		2744		U700		1 4	1492							
	STO			07	350		2757	30	0.00	. 0,	. 7	1490							
))1	118.5	177+1		01 6 7	351. 351.		2757		U54c	. 0.	05	14 = 0							
	ST.			1) F NJ			27:5		0577		140	1457							
	STI			ე57∙ ე516	3500		759	00	9511	0 10		1408							
371	13 H S	1200			350		.75-	0.1	3531	a 11	0.1	1400							
	ST			0515	343		2771		Usid		54	14830							
	STE			04.7			2772		2525		ول	1400							
201	STO	1200 T1291		0416	342		2773	0.9	2231			14354							
001	06.2			041			2774	0.0	10422	5 1.7	255	1407							
	STA			3434			2775		10+54		5)4	1490							
	ST			0400			.777		10473		352	1491							
201	ST	71501		0324			2777	.,,		- •	-	1471							
301	ű8 S	13001		.,4		> 12													

ID. NO.	SHIP COOE	LA TITU	DE LO	NGITUDE 150	MARSDE SQUARE		STATION IGMT		YEAR	ORIGI CRUISE HO.	NATOR* OITATS NUMBI	N	DEPTH TO BOTTOM	MAX, DEPTH OF S'MPL'S		WAVE ERVATIONS HGT FEE SE	WEA- THER CODE	CLOUD CODES	}	S	NODC TATION NUMBER
117	EN	4358	N Q	4055 m	143	30	10 14	233	1 207	U12 0	0.3		4801		19	2 3	63	5 9			000
						WAI		WIND	BARD	1 410 7	MP. C	Т,	NO.	<u>, </u>			,			'	
						LDA	TRANS DIR	57610	METER	DRY ORY	WE			SPEC							
					c	DE	let City	FOICE	imba	6ULB	BUL	<u>'</u>	GEFINS								
						01	24	520	0 +	8 206	20	10 6	14								
	MESSENGE TIME o	CAST NO.	CARD TYPE	DEPTH (m)	1 70		\$ */*.	SIGN	14-T	SPECIFIC VOL	UME IIB ²	≨ ∆ 0 M .NYD # 10 ³		DCIFY	Q 2 m1/(PO4mP ya = 01/1	(01AL=P (01AL=P	ND3~N	ND3-N	\$1 O4-\$0	
			STD	9370	19	24	3500	24	10	00297	07	0000	15	230							T
	239	, '	OHS	3000	19		34996							200							
			STD	0010	19		3507	2.5		00295	34	0029		205							
			STO	0020	19	5.7	3520	25	1 3	33287	7+	0058	1.9	210							
	23	9	08 S	0025	19		35289	25	16				15	212							
			STO	0030	19.		3545	25		00268	18	0036		211							
			STO	4050	186		3594	25	d4	00218	56	0139	19	203							
	239	9	OBS	0052	180	50	3597	5 25	94				1.5	202							
			S T O	00.75	17	56	3607	26	21	00183	84	0189	1.5	177							
			STD	0100	16	0 c	3617	26	52	30155	35	0228	1.5	154							
	239	÷	OBS	01 04	164	46	75183	3 60	57				15	151							
			S T D	0125	15	91	3607	26	6.3	00145	7.2	0209	1.5	133							
			S T D	0150	15	13	3596	26	69	00140	db	0301	. 15	110							
	23:	7	08 S	0154	15	11	35950	20	70				15	114							
			510	0200	14	40	35 54	26	76	00135	74	0370	15	100							
	2 ? 3	2	085	0200	144	+6	35843	25	76				15	100							
			STO	0250	14	32	3574	25	51	00131	72	0457	1.5	093							
			STD	0300	134	43	3571	26	57	00127	27	0502	1.5	001							
	23.	d .	OPS	0310	13	30	356 +1	20	8 8				1.5	078							
			STD	0400	11	42	3544	25	40	00118	28	0629	1.9	5039							
	23	7	08.5	0412	110	52	35414	27	JO				15	034							
			STD	05 0 0	10.	29	3529	2.7	14	00104	Ď i	0736	15	6000							
	239	,	ORS	13515	09	97	35246	2.7	1.7				1.4	990							
			510	0500	07		34 12		51	00087	61	0932		907							
	239	9	065	0010	07.	14	3+885						14	896							
			SID	0700	06		3449	2.7		00072	22	0912		193							
			SID	08 00	06.		3506	2.7		00000	73	0976		484							
	23	7	ORZ	10316	061		35054							837							
			S T D	0900	05		3503	2.7		00055		1037		979							
			510	1000	04		34 79	2.7		00052	58	1091		573							
	530	3	OBS	101 =	04		34786							873							
			510	1100	041		3493	27		00050		1142		376							
			STD	1200	04		3497	27		000+6	52	1192		•d81							
	239)	OBS	T1269	04		34761							886							
			\$10	1300	04		3495	2.7		00047		1240		839							
			510	1400	031		3495	27		30046		1287		899							
			510	1500	03		34.95		7 a	000+6	66	1334		912							
			OBS	11537	03	86	34940	3 27	7 d				14	918							

NCE SNIP	LATIT			MARSDEN	STATION TI			VATOR'S	DE*TH	MAX.		WAVE	WEA-	CLOUD			HODE
D. CDDE	LATII	1/10	NGITUDE BY	10, 1,	MO DAY H	P 1/10	NO.	NUMBER	MOTTON			SERVATIONS	THER	CODES	1		TATION
176 EN	4.36		04125 W	144 31		JOZ 195			4755	1	03		1	8 6			000
110 CA1	432	10 41 0	PAGE N	WA		UNIO T		MP T	1 40	-		1 2 4	I	1 01 0	I	- 1	000
				COLO		SPEED ME	TER DRY	WEF CO	DEPTHS	DISERV							
				C00f	(a)	FORCE UP	NIT BULB	++	 -								
_	_	,		01	01	518 1	5- 150	139 7	14			L, , ,		,			,
MESSENGE TIME HR 1/10		CARD	DEPTH (M)	7 %	s *4.	SIG M A -T	SMCHIC VOLU	ME SA 04N x 10	M 300	CITY	D3 ml/l	PO4=P ug - a1/I	101A (= # 01/10 - g	NO2-N #2 - at/l	NO3-N NO - 81/1	\$1 O 4—\$1	ρН
-		510	3000	1941	3558	2535	002635	000	0 15	224							
13	2	04.5	0000	1981	35075	2535			15	224							
		210	3010	1 ₹40	3568	2535	002636	8 002	6 15.	225							
		STD	0020	1974	3509	2035	002636	8 005		227							
3.0	7	08.5	3335	1979	3568→	2530				228							
		510	30 + 0	1 ≠77	3575	2543	002582			229							
		5 70	0050	1969	3597	2560	002410	012		232							
00	4	DHS	3353	1959	35975	2550				232							
		STO	0075	1740	3507	2624	001811			174							
0.0	-	510	0100	15 -2	3510	2563	001447	· 022		132							
3.3	4	UB S	-101	15#7	35171	2664	221	0.05		131							
		STO	0125	1541	3604	2070	001339			150							
0.0	2		01:0	1499	3598	2675	001353	9 02-		110							
00	-	08 \$ 5 T U	02.00	1+97	35+76	2:75	0.113.13	3 036		110							
00	2	385	10202	1+3+	35 837	2673	001332	7 035		J-36							
90	2	510	0250	1375	3578	2678	001270	1 042		095 084							
		SIB	0303	1317	3572	2633	001270			373							
0.0	;	CRS	0301	1316	35713	2543	001213	7 046		372							
3.4	_	STD	0+00	1206	3553	2704	301125	U U60									
30	>	045	U# 91	1235	3557-	2705	001123	0 000	150								
	_	STU	0500	1025	3533	2718	001012	8 071									
20	3	64.5	10502	1024	35421	2713	001012	5 071	149								
	-	STO	0511)	0834	4515	2737	000635	4 030		943							
30.	?	OB S	DOUG	0224	35154	27.7	,,,,	. 030	14								
		SID	0700	0.49	3508	2750	030734	0 0 87									
		511	0:00	3525	3502	2750	330611										
	?	0.15	10300	3500	55024	c 750			14								
		STO	090)	0525	2500	2765	000551	1 100									
		STU	1000	3+77	3494	£ 771	000507	4 105									
0.0	2	OHS	1001	0 4 7 7	34+54	2771			140								
		STD	1100	0401	3500	2774	000435	9 110	5 140	176							
		510	1200	0446	3501	2776	000459	9 115	3 14:	187							
30.	2	088	11244	0479	35003	2777			148	591							
		STI	1300	1)430	3501	277∺	000462			547							
		STO	1+00	041>	3441	277 -	000450	7 124	5 14	+07							
		STD	1500	0401	3497	2773	000+65	7 129									
30	2	08 S	11504	0400	34971	2774			14	918							

									INATOR'S	DEP	IAM MAI		WAVE	W.E.	nic.	oup		Nr.	oc
ERENCE ID. E NO.	SHIP	LATITUO		GITUDE SS	MARSDEN SOUARE	MO DAY H	YEAR	CRUISE NO.	STATION	TC BDIT	DEPTH	Des	HGT PER SE	THE	e CD	DES		STA	TION
11176		4400	N 04	100 W	149 -1	10 15 1	20 170	7 112 0	0 >	484		01	2 4		8	7		0	005
					COLDS	TRANS DIE	SPE OF SPE	TER DRY	WET	CODE OFF									
					CODE	01	S12 1		105	7 14									
	ATTUNCE		CARD		01	5 %.	SIGMA-T	SPECIFIC VO	IUME &	Δο	SDUND	D ₂ mi/l	PD 4-P	TOTAL				05:	ρН
	ARSSENGE TIME O	NO.	TYPE	DEPTH UNI	1 %	3 7,	3IGMA-I	-FJAMONA		x 103	/ELOCITY		μg • σ1/1	10 - ور	/I up -	81/1 pq	- al/l >	ig - al/l	
			STO	0000	1907	3570 35704	2540 2540	00258	133 0		15221 15221				1	- 1	,		
	126	,	08 S S T D	0010	1967	3570	2540	00259			15222 15224								
			STD STD	0020	1968 1963	3570 3570	2540 2540	00259		077	15226								
	126	>	OBS	0031	1963 1959	35704 3572	2540 2544	00256	a5 0		15226 152 27								
	125		S T Ð 0 B S	J061	1954	3574+	2547				15227 15198								
			S T D S T D	0075 0100	1530	3584 3597	2585 2635	00218		237	15153								
	126		JR S	0123 0125	1553 1550	35025 3602	2660 2607	00142	23.2 0		15123 15123								
			STD	0150	1516	3599	2672	00138		311	15116 15106								
	124	5	08 S ST0	0183 0200	1469 1439	35934 3588	2678 2680	00131	135 0	379	15098								
	12	5	DBS	T0243 0250	1376 1376	35766 3576	2685 2684	J0128	8 3 C		15083 15084								
			STO	0300	1357	3573	2636	0012		508	15086 15073								
	12	5	08 S S T O	0365	1287 1205	35692 3552	2697 2700	00116	b92 0	631	15049								
	12	6	085	04 87	1023	35205 3518	2709 2 711	0010	683 (14995 14988								
			STO	0500 0500	0344	3507	2728	0009			14945								
	12	6	085 5 1 0	T0613 0700	0830 0726	35060 3506	2745	0007	607 (926	14917								
	12	6	0A S S T D	0732	0693 0634	35052 3504	2749 2756	3006	557) - 97	14909 14897								
			STO	0900	0562	3502	2764	0005		1059	14884 14878								
	12	6	08 S S T D	10985	0513 0507		2769	2005		1114	14879								
			STD	1100 1200	0474	3499 3497	2772 2774	0005 0004		1167 1217	14381 14887								
	12	6	280	1231	0440	34970		0004		1267	14889								
			STD STO	1300 1400	0430 0417	3496	2775	0004	903	1316	14908								
	12	6	STD D8 S	1500 11539	04 05 04 01		2776	0004	884	1365	14919 14924								
	1 4		STO	1750	0382		2779				14952								
								0004	143	1486	14967								
	12	6	085	T1862	0374			0004	143	1485									
ERENCE	_	6		T1862	0374	34949	1 2179	0	RIGINATOR	's c	14967	TH (WAVE DESERVATION		WEA-	CLOUD			NDDC STATION
	SNIF CODE	LATIT	08\$	T1862	0374	STATION IGM	1 2179	D		'S C	14967	TH C	OFFERVA TIO	NS	THER	CODES			STATION NUMBER
ID.	SNIF	LA TIT	08 S	T1862	0374	51ATION 16MD DAY	2779 TIME TO YEA	CRUISE NO.	RIGINATOR	S CON BER BC	14967 DEPTH DEPTH OF TO STAIL	L'S DO	BSERVA TIO	NS .	THER	CODES			NUMBER
ID.	SNIF	LA TIT	08 S	T1862	0374 MARSOEN SQUARE 3 10° 1' 145 4	STATION IGM MD DAY 1 10 17 NATER OR TRANS DO	2779 TIME YE, HR.1/10 133 1 7 WIND SPEED	AR CRUISE NO.	RIGINATOR STATIC BMUM	S (C)	14967 DEPTH DEPTH OF TO OPTION 55M1 755	th C	DESERVATION	NS .	THER	CODES			NUMBER
ID.	SNIF	LA TIT	08 S	T1862	0374 MARSDEN SQUAXE 3 10° 11 145 4	STATION STATION OF TRANS DIE	2779 TIME P HR.1/10 13.3 1 7 WIND R OBED OBED TORCE	CRUISE NO.	RIGINATOR STATIC NUMB J J O IR TEMP T IRY WE BUIL	S COSE	14967 DEPTH DEPTH TO DITTOM S'MI 755	L'S DU	DESERVATION	NS .	THER	CODES		+	000
ID.	SNIF CODE	LATIII	08 S	T1862	0374 MARSOEN SQUAXE 10° 1' 145 4	STATION STATION OF TRANS OF TRANS OF	7 2779 TIME P. YE. HR.1/10 13.3 1.7 WIND STREED ON TORCE 2 \$1.2	AR CRUISE NO. 57 012 BARO AMETER D SU 210 15	RIGINATOR STATIC NUMB JUO IR TEMP T	S CON BER BC CON BER CON B CO	14967 DEPTH TO DEPTH TO DETTOM SIMIL 755 NO. OBS. EPTHS DBSE	L'S DU	DESERVATION L HGT MB 2 1 3	SEA (TNER CODE	CODES	NO3-N ug-st/1		000
ID.	SNIF CODE	LATIT	OBS	00000000 00000000000000000000000000000	0374	STATION IGM STATION IGM MD DAY 1 10 17 NATER OR TRANS DI	2779 TIME VE. HR.1/10 13.3 1.7 WIND STEED R STEED 70ECE 2 \$12	AR CRUISE, ND. 7 012 BARO- AMETER O (mbs) BU 210 15 -1 SPECIFIC ANOMA	STATION STATIO	25 00N 800 100 100 100 100 100 100 100 100 100	14967 DEPTH DEPTH TO DEPTH OF STAND OF STAND OBSERTINS SOUND VELOCITY	PECIAL RVA ROP	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	OOO6
ID.	SNIF CODE	LATIT	08 S	00000000 00000000000000000000000000000	0374 MARSOEN SQUARE 3 10° 1' 146 4 194:	34945 STATION MO DAY 1 0 17 NATER OR TMAN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11Mt VE. 11M	AN CAUSE NO. 2 57 012 5880- AN ETER D INSUITABLE STATEMENT SALEMENT SALEM	STATIC NUMB	25 CON BER 17 CODE TO THE STATE OF THE STAT	14967 DEPTH OF OFF OFF OFF OFF OFF OFF OFF OFF OFF	PECIAL PYARDH	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE	LATIT	OBS	00000 0010	0374	34945 STATION GM DAY	11/ME VE. HR.1/10 VE. HR.1/10 17/0KE 17/0KE 2 S12 SIGMA.	DO CAUSE NO.	STATION STATIO	25 00N 800 100 100 100 100 100 100 100 100 100	14967 DEPTIN DEPTIN DEPTIN OF SUMPO VELOCITY 15216	PECIAL PYARDH	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE A EN	LATIT	TUDE LUDE LUDE LUDE LUDE LUDE LUDE LUDE L	0HGITUDE 1/10 041071 W 041071 W 040000 040000 040000 04000 040000 040000 04000 04000 0	0374 MARSON	34945 STATION GM GM GM GM GM GM GM G	TIME TO THE TOTAL	AR CAUSE NO. CAUSE NO. \$7 012 \$880	STATIC ST	S CODE CODE CODE CODE CODE CODE CODE CODE	14967 DEPTH TO DEPTH	PECIAL SVARON	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE A EN	LATIT 440	OBS TUDE L DI 3N C TYPE STO OBS STO STO	DEFIN W DEFI	0374 MARSON SQUARE S 10° 1° 1° 1° 1° 1° 1° 1	STATION MO DAY 1 10 17 NATE OR TEAM OR	2779 TIME YEAR	O O O O O O O O O O	STATIC NUMB JUG IRTEMP TRY IRT EMP TO THE RUIT VOLUME ALV-ELO? +331	S 00 00 00 00 00 00 00 00 00 00 00 00 00	14967 100 000 000 005 005 005 005 14 SOUNO VELOCITY 15216 15216 15221 15222 15225	PECIAL SYATION	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE A EN MESSEN TIME NR 1/	LATIT 440	08 S	0000 0010 0020 0050 0050 0050 0050	03748 SQUARE SQUARE 107 17 145 4 108 17 17 145 4 109 17 145 4 109 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	34945 STATION GM DAY	100 2779 100 27	Day Cause	### ### ### ### ### ### ### ### ### ##	S 00 00 00 00 00 00 00 00 00 00 00 00 00	14967 14967 14967 1500 150	PEGIAL SVARON	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE SNIF CODE EN MESSIGN NR 1/ 1	LATII 4440	08 S TUDE 1/10	DEFIN W DEFIN W 0 0000 0 0010 0 0020 0 0050 0 0050 0 0050 0 0100	0374 S SUANE S SUANE S 10° 1' C 10	STATION OAN	TIME D WILLIAM STORE STO	AR CAUSE NO. 1	### ##################################	S CON BER	14967 100 OFFICE MARCH OFFICE	PECIAL SVARDN	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE SNIF CODE EN MESSIGN NR 1/ 1	GI CAS: 01 10 NO 10 333	08 S TUDE 1/10 1/1	00000 00100 0050 0050 0050 0100 0100 01	0374 E MARSOEN 10° 11° 10° 11° 10° 11° 10° 10° 10° 10°	STATION OAY	11Mt YEA 11Mt YEA 11Mt YEA 11Mt YEA 11Mt YEA 11Mt	CAUISE NO.	### ### ### ### ### ### ### ### ### ##	SS	14967 14967 1500	PECIAL DE PECIAL	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE MESSINA EN MESSINA 11 1 1	LATIO 440	08 S TUDE 1/10 1/13N CAND 1/1 CAND 1/1 TYPE S TO OB S S TO S T	DEFIN W DEF	0374	34949 STATION MOD DAY 10 17 NATE O. STANA D. 35 83	TIME VC. HR.1/10 VC. HR.1/10 VC. HR.1/10 VC. HR.1/10 HR.1/10	O C C C C C C C C C	### ### ### ### ### ### ### ### ### ##	0262 0279	14967 TO STORM TO STATE TO ST	O2 n	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
of NO.	SNIF CODE MESSEN THANK 1/2 1 1	440 440 333 333 333	08 S TUDE 1/10	DEFIN W DEFIN W 0 0000 0 0010 0 0020 0 0050 0 0050 0 0150 0 0150 0 0150 0 0150 0 0150 0 0150 0 0150 0 0150 0 0150 0 0150	0374 S SQUARE S SQUARE S 10° U 145 4 194 194 194 194 194 194 194 1	STATION MOD OAT	1 1 1 1 1 1 1 1 1 1	27 012 28ANO AMETER DIPORT AMOUNT AMO	### ### ### ### ### ### ### ### ### ##	SS	14967 1697 1707	PECIAL SYARDY	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE MESSEN THANK 1/2 1 1	LATIO 440	08 S TUDE 1/10	00000 00100 0020 0050 0050 0100 0150 015	0374	STATION OAN	11Mt VE	Cause No.	BIGINATOR STATIC, MARCHAN JUO IR TEMP 1 TO 11 10 0 11 4445 4445 4577 5707 4102 3743 3155	3	14967 14967	O2 n	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	SNIF CODE MESSIN TIME TIME NR 1/2 1 1 1	440 440 333 333 333	08 S	00000 00100 0050 0050 0050 0050 0050 00	0374 MARSON SUANE SUANE	STATION MO OAT MO OAT L U T NATION OI S */4 S */4 S */5 S */5 S */5 S */6 S */6 S */6 S */6 S */7 S */6 S */7	11ME VE VE VE VE VE VE VE	O C U S NO C U S NO C U S NO C U S NO C	BIGINATOR STATE OF THE PROPERTY OF THE PROPERT	3	14967	FECIAL SYATION	DESERVATION L HGT RE 2 1 3	SEA (TNER CODE	B 4		5104-	000
ID.	MESSIN TIME IN IT	440 Cast Cast Cast Cast Cast Cast Cast Cast	08 S	0 ORDIN W 0 0000 0 0000 0 0000 0 0000 0 0000 0 0000	0374 Sayane Saya	STATION STAT	1	O O O O O O O O O O	BIGINATOR STATE OF THE STATE OF	0048 0073 0122 0177 0223 0262 0279 056 056 056 056 056 056 056 056 056 056	14967 14967 1507	PECIAL SYARDA	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIP CODE SNIP CODE EN MESSIN 1 1 1 1 1 1	GG CAS	08 S	00000 00100 0020 0050 0050 0150 0150 015	0374 Sayuate Sayuate	STATION COM	11Mt VE	O O O O O O O O O O	BIGINATOR STATE OF THE PROPERTY OF THE PROPERT	3	14967 14967	PECIAL SYARDO	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIP CODE SNIP CODE EN MESSIN 1 1 1 1 1 1	440 Cast Cast Cast Cast Cast Cast Cast Cast	08 S	0 0000 0000 0000 0000 0000 0000 0000 0000	0374	STATION GM GM GM GM GM GM GM G	10 10 10 10 10 10 10 10	CAUSE NO.	BIGINATOR STATE OF THE STATE OF	0048 0073 0122 0177 0223 0262 0279 056 056 056 056 056 056 056 056 056 056	14967	Prints own and the second of t	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIP CODE STORM	GG CAS	08 S	00000 0010 0025 00300 0050 0050 0050 0050 0050 00	0374	STATION GAN	100 100	Cause No.	BIGINATOR STATE WILLIAM WILLIAM	33 6 6 7 7 7 7 7 7 7 7	14967	G2 n n n n n	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIF CODE SNIF SNIF SNIF SNIF SNIF SNIF SNIF SNIF	333 333 333 333 333 333 333 333 333	08 S	00000 00100 0000 0000 0000 0000 0000 0	0374	STATION COM	110 10 10 10 10 10 10 1	O O O O O O O O O O	BIGINATOR STATE OF THE PROPERTY OF THE PROPERT	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14967 14967 1501	02 f	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIF CODE SNIF SNIF SNIF SNIF SNIF SNIF SNIF SNIF	440 Case No. 233	08 S	0 0000 0000 0000 0000 0000 0000 0000 0000	0374	STATION CAN	11Mt	O O O O O O O O O O	BIGINATOR STATE OF A S	3	14967 14967	02 m	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
	SNIF	440 440 10 10 NO	08 S	00000 00000 00000 00000 00000 00000 0000	0374 MARSONN 1974 145 4 144 144 144 144 144 144 144 144 154 1	STATION GAN	10 10 10 10 10 10 10 10	O O O O O O O O O O	BIGINATOR STATE OF THE PROPERTY OF THE PROPERT	33 6 6 6 6 6 6 6 6 6	14967	0 0 PRECIAL PROPERTY OF THE PR	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIF	333 333 333 333 333 333 333 333 333	08 S	00000 00100 0025 00300 0050 0050 0050 0050 0050 0	0374	STATION MO DAY	100 100	O O O O O O O O O O	BIGINATOR STATE OF THE PROPERTY OF THE PROPERT	33 NN N	14967 14967	0 PRECIAL BY A RON P P P P P P P P P P P P P P P P P P P	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIF CODE CODE CODE CODE CODE CODE CODE CODE	440 440 10 10 NO	08 S	00000 0010 0000 0025 003075 0150 0150 0150 0150 0150 0150 0150 0	0374	STATION MO DAY	10 10 10 10 10 10 10 10	O O O O O O O O O O	BIGINATOR STATE OF THE PROPERTY OF THE PROPERT	3 3	14967 14967	0 PRECIAL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIF CODE CODE CODE CODE CODE CODE CODE CODE	440 Cash Cash Cash Cash Cash Cash Cash Cash	08 S	0 0000 0000 0000 0000 0000 0000 0000 0000	0374 SOUTH 145 4 145 145 145 145 145 155	STATION CAN	10 10 10 10 10 10 10 10	O O O O O O O O O O	## ## ## ## ## ## ## ## ## ## ## ## ##	33 4 4 4 4 4 4 4 4 4	14967 Sound Section	0 0 PRECIAL PARA RD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	000
ID.	SNIF CODE CODE EN MESSICIA 1 1 1 1 1 1 1 1 1 1 1 1 1	440 Cash Cash Cash Cash Cash Cash Cash Cash	08 S	00000000000000000000000000000000000000	0374 SOUTH 194 19	STATION MO DAY	10 10 10 10 10 10 10 10	Cause Caus	### ### ### #### #### ################	33	14967 Sound Section	0 PRECIAL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DESERVATION L HGT RE 2 1 3	SEA C	TNER CODE	B 4		5104-	OOO6

Table III.—Continued

REFERENCE		_	_	_		1 -		260.611					_								_							
CTRY ID.	CODE	LATITI	UDE	LO	NGITUDE	200	OS.	RSDEN UARE	STA	TION T	TME	YEAR	-	DRIGI			_	DEPTH	MAX. DEPTH			VE ATIONS	WEA					NODC
COOS NO.	CODE	·	1/10		1/10	۵ž	10*	1"	MO	DAY	4R,1/10				MUN		J	MOTTOM	S'MPL"	1		PER SEA	CDD					TATION
311176	LEN	4357	7 N	04	055 W		14	9 130	10	20 (007	1967	٦,	012 00	. 7		7	4801	_	1	7		+-		_		-	_
									TER		WIND	BAI	_	AIR TE		сТ		NO.		24	2	131	ſ	412	? [0007
								coro	TRANS	DIR	SPEE	ME	ER	DRY	w	ET C	ZIV ODE	DBS.	DESERVI	CIAL ATIONS								
								CODE	(m)	1	FORC	E (m)	***	EULA	80	LB		DEPTHS]							
		_	,	_						25	514	31	5	178	14	4 7	7	14										
	MESSENGE TIME		CAI		DEPTH U	m l		r to		٠/			SP	ECIFIC VOLI	JME	₹ △ DYN.	D	sou	ND		Τ.						_	Γ
	HR 1/10	NO.	TYP	'E		,	i		'	***	316	MA-T	^	HOMALY-I	10"	DYN.	۰M.	VELO		02 ml/		O4-P	101AL-F	NO2-1) 3 – N - at/l	\$1 0 4-Si	ρH
			SI	f D	0000		,	929	35	0 4	25		1	03334		0.10	_	1				\rightarrow			+**	-		-
	007		085		0000			923		62	25		10	02374	9 1	000) ()	1152]		Î	1			
			51		0010			929	35		25		0	02366	6	002	, ,	152										
			S 1	D	0020			928	35		25			02359		004		152 152										
	007		08.9	5	0023			928	35		25		0	02337	~	004	'	152										
			5.1	0	0030	1		930	35		25		0	02361	3	007	0.	152										
			S 7	D	0050		1	937	350		25			02367		011		152										
	007		D8 9	;	0050		1	937	359		25				-	• • •		152										
			ST		0075		1	763	360	2	26	16	0	01889	2	017	1	151										
			ST		0100		1	538	36(06	26	49		01581		021		151										
	007		085		01 01		1	634	360	002	26	50						151										
			ST		0125		1	584	360	13	26	59	0	01495	2	025	3	151										
			ST		0150			538	359		26	67	0	01430	7	028	9	151										
	007		085		0151			536	359	86	26	67						151	22									
	207		38 S		101 93			469	359	96	26	70						151	0.7									
			ST		0200			460	359		20		01	01348)	035	9	151	05									
	007		ST		0250			403	358		26		0.0	01301	3	042	5	150	94									
	007		08 \$		02 92			363	357		26							150	67									
	007		ST		0300			362	357		26		00	01271)	048	9	150	88									
	007		D8 S		0397			291	356		26							150										
	307		08.5		0400			267	356		26		00	012159	5	061	4	150	78									
	307		SI		T0464			180	355		270							150										
	007		DBS		0500			100	353		271		00	01093	3	072	9	150.										
	001		ST		0600			995 915	352		271							1499										
			ST		0700			713 772	351		272			009439		083		149										
	007		DB 5		10722			746	351 350		274		00	007936	> 1	91	8	149										
	•••		ST		0800			578	350		275		00	00.777				1492										
			ST	-	0900			501	350		276			06777		99		1491										
	007		DBS		0920			87	350		276		UU	05824	٠	105	4	1490										
			STO		1000			333	350		277		0.0	05264			^	1489										
			STO		1100			+80	350		277			105264 104906		1110		1489	-									
	007		DBS		1162			55	350		277		00	, , , , , , 0		10.		1488										
			STI)	1200			49	350		277		0.0	04788		209	2	1488										
			5.10)	1300			34	349		277			04800		25		1489										
			STI)	1400			19	349		277			04743														
	007		DA \$		T1402			19	349				- 0	2,,,,														
	007										277		00	104/43	1	30 5	>	1490										

ERENC	E					MARS	DEN I	***	1 40			m	DRIGIN				MAX	_		_	_	_		_		
ID.	CDDE	LATITU		LONGITUDE	100	SOU	ARE	214 (GMT	IME	YEAR	CRU		TATIO		DEFTH	DEPTH		V A W		WEA		DUD			NDDC
+	-+-	-	1/10	1/10	1	10*	1*	MO	AY H	R.1/10		NO		NUMBE		BOTTOM	S'MPL	S DUL	NGT P	EE SEA	CODE	_	AM	1		NUMBER
1117	6 E4	4400	N I	04350 N		149			0 2	38 1	967	01	2 00	8		4791		27	ı			To	1			0008
						-	WAI			IND	PARC		AIR TE	MP. C	VIS	NO.		CIAL		•				'	,	0008
							COLOR	TRANS.	DIR.	SMID QA FORCE	ME18 (mba		DRY FULB	WET	COOK	OBS. DEPTHS	OBSERV	ATIONS								
						- 1	04		27	509	308	3	19+	178	7	13										
	MESSENG TIME HR 1/11	CAST NO.	CAR		(m)	,	τ	s	٠/٠.	SIG 4	IA-F	5#ICI	FIC VOLU	ME (△ D YN. M. x 10 ³		OCITY	0 2 ml/1	PO.		OFAL-7	NO ₂		NO3-N up - at/l	\$1 0 4-1 pg - al/	
			ST	0000	n	19	5.1	350	1	250	0	10	211.1			1			+	-		-	-	70		-
	2.3	q	085				51	360		250		UU	2318	> 10	000	1152				Į			- 1			
			ST			19		360		256		n n	2322		023	152										
			ST			19		300		256			2324		046	152										
	2.3	9	085	0025		19		360		256		00	2327	, ,	040	152										
			ST	D 0030)	19	49	350		256		00	2320	3 0	069	152										
			ST	0050)	19	40	360	5	257			23021		115	152										
	2.3	3	DRS	0051	Į.	19	45	300	47	257						152										
			ST		5	18	47	352	8	261	5	UO:	19300		168	152										
			ST			17	75	364	2	254	4	00	16333		212	151										
	2.31	9	URS	01 02		17		354	30	264	6					151										
			S T			17		304	3	254	8	000	16015	0	253	151	91									
	2.2		STI			1.7		304		265		001	15771	. 0	292	151	86									
	239	1	08 \$	0155		17		363		265	2					151	87									
	234	,	STI			15		152		266		001	15103	0	369	151	70									
	: 5 '	•	08 S	02.07		16		362		266						151	68									
			ST			15		200		200			4350		443	151	43									
	220		085	0309		14		358		257		001	13721	Ü	513	151	21									
			STO			14		358		267						151	17									
	236		DBS	0413		13		157		504		001	2764	0	46	150										
	- '		STO			1.4.		157		26+						150										
	224		085	10520		12		355		27)		001	2018	J	770	150										
			STE			10		3554		270.		301	0 = 10		7	150										
	239		085	0013 E100		091		3521		271		UUL	0545	0	383	150										
			STE			094		3510		273		2/1/2	9036		0.1	150										
			STO			070	-	3502		274			17736		81	149										
	235		085	T081 9		068		3501		274		JU ()	11136	10	165	149.										
			STO			05		3505		275		าสก	6532	1.	36	149										
			STO	1000		05		3507		270			5629		97	1490										
	233		395	1020		05		3537		275			-021			1490										
			ST			051		3507		277		۱, (5072	1.3	50	148										
			SID	1200		046		3503		2776			4834		00	1489										
	238		08.5	T1269		043		3498		2779				• •		1489										

ID.	SHIP	LATITU	DE	LOP	GITUD	N DOG!	M A 50	RSDEN UARE 1"		TION TI		YEAR	CRUI		ATOR"	N	DEPTH TO BOTTOM	DEPTH OF S'MPL"	1	WAV SERVA	E TIONS ER SEA	WEA THER CODE	CODE	5	S	NODC TATION UMBER
76	EN	4401	Ň	04	1 02	н	14	, 41	10	21 1	25 1	457	51	2 00	9		4840		22	2 3	3		8 5			0009
								WA	TER	W	ONE	BARO). L	AIR TE	MP. TO	vis.	NO.	.,,	CIAL							
								COLGR	TRANS (m)	DIR.	OR FORGE	METE (mbe		DBA	ME.	COD	OBS. DEPTHS	OBSERV.	A TION S							
								04		2.3	517	3 0 5	5	194	18	3 7	13									
	MESSENGE TIME NR 1/10	CAST NO.	C.A.	RD PE	DEPI	H (m)		r *c	s	٠/	SIG M	A-T		FIC VOLU		Z ∆ 0 0 ∧ X 10 ³		GCHTY	O2 ml/I		4-P - 01/1	101AL-P	NO2-N	NO3-N vg - al/1	\$1 O4 = \$1 yq + q1/1	ρН
			S	19	00	00	1	1947	36	02	257	0	00	2302	2	0000	15	219								
	125		DВ	S	00	00	1	1947	36	023	257	0					15	219								
				D	00	10	1	1946	36	0.2	257		00	2304	9	0023		220								
	125	i	₽8	S	0.0			1940		019	257							221								
				TD	0.0	20	1	1946	36	02	257	0	υũ	2308	5	0046		222								
				I D	00	30	3	1947	30	23	257		00	2305	8	0069		224								
	125		08			35		1948		041	257							225								
				TD.		50		1912	36.		259		00	2091	8 1	0113		219								
	125		08		0.0			1862		391	261							211								
				I D		75		1851	36		262			1830		0152		208								
			S			00		792	36		263		00	1677	5	0206		196								
	125	,	D8		01			1771		420	264				_			192								
				TD	01			1757	36		264			1603		0247		190								
				ĪD		50		729	36		255		00	1559	7	0286		186								
	125		08		101			1723		3 3 3	265				_			185								
				10		00		1667	36		266			1506		0363		174								
				TD		50		1594	36		266		00	1449	4	0437		159								
	125		D8		02			1525		053	267		0.0	1200	,			143								
	125			10		00		L507 L360	361) 2 793	267		00	1388	4	0508		138								
	125		08	5 10	T03	00		1347	35		268		0.0	1277	1	3663		100								
	125		0 R		04			1298		590	269		JU	1211	,	0641		089								
	123			ro To	05			1221	35		270		00	1187	3	0764		071								
	125		06		T05			1073		330	271		00	1101	,	0,04		032								
	123			rD.		00		1057	35		271		0.0	1060	6	877		028								
			S			00		0854	35		273			8880		974		967								
	125		08		07			3794		104	273		Ų.J	-500	-	,,,,,		949								
				10		00)699	35		275		00	0721	5	1055		923								
	125		08		T 08			0591		050	276		-	1	-			896								
			S		09			05 90	35		276		0.0	0598	9	1121		896								
			S		10			0524	35		277			0525		1177		886								
	125		08		T10			05 03		040	277							892								

ID.	SHIP	LATITU	DE	LON	GITUDE E	E MAI	SDEN UARE	STATION 1		YEAR	CRUIS	ORIGINA	TATION	\neg	DEPTH	DEPTH	1 06	WAV AV832		WEA- THER	CLOUD			NODC
NO.	CODE		1/10		1/10	10"	111	MO DAY			NO.		UMBER		BOTTON	S'MPL	S OIR		ER SIA	CODE		il .		NUMBER
176	EN	4401	N	0+0)49 W	149	1			967	012	010)		4846		24	2 3			8 3			0010
							WA	TER	WIND	BAR	no.	AIR TEA	AP °C		NO.		CIAL]						
							COLOR	TRANS DIR.	SPEED OR	MET	ER	DRY BULB	WET	CODE	OBS. DEPTHS	CASSE	VATIONS							
									PORCE	+	-+	-				-								
							04	24	514	25	4 2	00	194	7	14	L,								
	MESSENGA TIME	CAST	CAR		DEPTH (m)		T TC	5 %.	SIGM	A -1	SPECIF	MALT-II	2, I D	A 0.		UNO	0 2 ml/			101AL-P		NO3-N	SI C4-S	
	MR 1/10	1	7.16	,					\perp		-110			103	VEC	OCITY		PR.	171	# Q + 01/1	µg - a1/1	yg - at/l	₽g - 01/	1
			51	D	0000	1	947	3608	257	4	1002	2596	, lo	00	15	219			- 1					1
	135	5	085	,	0000	1	947	35092	257	4					15	219								
			5.1	D	0010	1	944	3608	257	5	002	22551	0	22	15	220								
			S 1	G	0020	1	942	3608	257	6	002	22532	2 0)45	15	221								
	135	5	DB 9	,	0024		942	35085	257							222								
			S 1		0030		943	3609	257		002	22541	0	67		223								
	135	5	085		0047		944	36108	257							227								
			S 1		0050		929	3612	258			2050		12		223								
			\$1		0075		815	3619	261		001	3870) 0	601		196								
	139	5	OBS		1600		753	36212	263							181								
			5 1		0100		719	3620	204			15628		207		172								
			5.1		0125		645	3618	255		301	15217	0	47		154								
	135	5	DBS		0136		622	36166	266							148								
		_	SI		0150		613	3010	266		001	14695	0.	285		148								
	135	5	08.9		T0182		588	36135	266							145								
			5.1		0200		569	3611	266			4264		357		142								
			51		0250		512	3602	267		001	13812	2 0	27		131								
	135	,	OB S		0270		497	35981	267		00.			3.5		120								
			S 1		0300		442	3500	263		001	13371	. 0	195		116								
	139)	08 9		0357		367	35776	268		001			2.6		100								
	120		S 1		0400		335	3573	269		001	1207	. 0	25		0 95								
	139	9	OB 5		T0440		295	35580 3558	269		003	1855		748		038 072								
	135		089		0500		224		270		uu !	1100;	. (4-8		072								
	1 3 3	,	S1		0524 0500		1977	35525 3525	272		3.37) +9 + :		357		997								
	135	5	083		T0688		703	35040	273		030	Jフブサ.		> > 6		938								
	13:	,	51		0700		773	35040	273		0.30	08454		149		335								
			51		38 00		1664	3502	275)70'51		27		908								
	139	5	083		0865		609	35020	275		300	/107	, .	, , ,		897								
		-	51		0900		1593	3503	27+		oac	0510	3 1) 7 4		897								
			51		1000		548	3505	270			15531		152		d96								
	135	5	085		T1075		517	35050	277		5.50					3 76								
	• -	-	S 1		1100		507	3505	277		000	5117	7 1	205		d96								
			Si		1200		1469	3503	217			1487		255		897								
			5.1		1300		0435	3479	277			0431		304		868								
	135	5	08		T1308		1432	34982	277							899								

Table III.—Continued

1174 EN 4400 N 04057 N 149 40 10 23 115 1907 012 011 4755 21 3 3 3 3 6 WATER WIND COOR (1844) DE WIND SOUR STAND DESENVATIONS OF SECUL WIND SOUR STAND DESERVATIONS OF SECUL WIND SECURI WIND SOUR STAND DESERVATIONS OF SECUL WIND SECURI WIND SE		SHIP	LATITU	JDE LOI	NGITUDE 5	squ	ARE	STATION IGAT		YEAR	CAUISE	STATION STATION NUMBER		DEPTH TO BOTTOM	DEPTN DF S'MPL"	0851	WAVE ERVATIONS	W EA THE	CODES	1 1	NODC STATION NUMBER
MATIST M	174	EN .								un 7	51.2 01	1		4755				-			001
	1101	C 4 1 1	4400	14 1 04	921 #1	1144				T	A 10 TE		Ι	NO.			3 13 1	,	, , ,	,	001
STD									. 0#				coo	OBS. DEPTHS	DBSERV	ATIONS					
SECOND S	_						01	21	526	1112	194	135	7	13	L.,						
118		11M1 6	CAST NO.		DEPTH (m)	Ţ	8	\$ *4.	SIGM	A-T	SPECIFIC VOL	UME 107	1 102 AM W	SDI VELO		D-2 m1/1				\$104-5 98 - 81/	
STD OUTO 1874 3561 2558 OUZ4227 OUZ4 15195				510	0000	1	863	3556	255	5	002443	7 0	000	15	1∍1				İ		
STD OU20		115		OPS	0000	1	868	25562	255	5											
118																					
118											002390	2 0	048								
118		118																			
STD											002374	· 4 O	072								
18		118									0.031										
118																					
STO 0100 1721 3627 2645 0016186 0208 15174											001/80	19 0	100								
118		LIN									201414		204								
STD		110				1	121			9	301010		200	10	114						
STD		110				1	666			9	001510	3 0	248	15	161						
118																					
STD		113																			
118											001390	16 0	356								
STO 0250 1486 3597 2677 0013657 0425 15122 15108 188 088 0302 35814 199 068 10378 1310 35703 2693 15108 15083 1508		118																			
118						1	486	3597	267	7	001365	7 0	425	15	122						
119				STD	0300	1	420	3582	267	g	001350	5 0	493	15	108						
STD		118		08.5	0302			35814													
STD OSOU 1049 3533 Z711 O010614 U735 15023		118			10378																
STO 0600 0933 3521 2725 0009538 0837 14981 14972 1																					
118																					
STO 0700 0803 3517 2742 0007946 0924 14948 118 085 0775 0717 35143 2753 14927 STO 0800 0687 3512 2755 0006695 0998 14919 STO 0900 0584 3505 2764 0005879 1060 14894 118 085 10986 0518 35013 2769 14981 STO 1000 0509 3501 2769 0005290 1116 14679											000953	8 0	837								
118 085 0775 0717 35143 2753 14927 STD 0800 0687 3512 2755 000665 0998 14919 STD 0900 0584 3505 2764 0009879 1060 14894 118 085 10986 0518 35013 2769 1881 STD 1000 0509 3501 2769 1116 14879		118									00070		0.3.								
STD 0800 0687 3512 2755 0006695 0998 14919 STD 0900 0584 3505 2764 0005879 1060 14894 118 085 T0986 0516 35013 2769 14881 STD 1000 0509 3501 2769 0005290 1116 14679											000/94	6 0	924								
510 0900 0584 3505 2764 0005879 1060 14894 118 085 10986 0518 35013 2769 14881 510 1000 0509 3501 2769 0005290 1116 14679		118									01104 - 5		00								
118																					
STD 1000 0509 3501 2769 0005290 1116 14879		110									000587	4 1	000								
		115									000529	ia 1	116								
SID 1200 0444 3499 2776 0004773 1215 14886																					
118 085 11232 0444 34992 2775 14691		118									000417	- 1									

COOL	LATITUI	DE 1/10	LDN		8	SOUARE		IGMTI DAY H	'	rear.	CSUIS		NATOR STATIC NUMI	N C	DEPT TO BOTTO	UZPI	N 08		TIONS FEET SEA	THER CDDE	COD	!s	5	NDDC TATION TUMBER
EN	+357	N	0+0	57 W	1	49 30	10	25 Q	11 1	157	61.	01	2		475	5	01	3	3		4 9	5		0012
					, -		ASTAN		IND	BARG	-	AIR TE			NO	1		1	- 1	,	,			
						CDL	OR TEAD		SPEED OI FOICE	STS M.	ĒR .	DIY	WE	T COL	DEPT	costi	ECIAL VATIONS							
						04	.	3:0	515	23		133	10	16 7	13	\top								
MESSENGE TIME 0 HB 1/10	CAST NO.	CA TT		DEPTH W	1	7 %		s -4.	SIGM	-	seci	IC VOLE		# △ C DYN A X 103	1	DUND	02 ml/			01A (= P	NO2=1			
		S	TD	0000		1902	3.6	07	250	>	υυ.	2155	.3	0000	1	5207		\top						
011		08	S	0000		1902	2,4	072	250	5						5207								
			TO.	0010		1904		OB	253		00.	154	9	0021		5209								
011		0.8		0018		1905		082	258							5211								
			TO	0020		1955	3 /	32	200		10:	2163	+	0043		5211								
		S	TO.	0030		1904		08	258			2105		0004		5212								
011		ОH	5	0035		1904	3 4	0002	255							5213								
			TD.	0050		1853		25	201		00	1523	5	0105		5203								
011		0.8		0000		1503		370	265							5195								
			Tri	0075		17-9		333	253		ou'	086	o.	0150		51 70								
			Tο	0100		1744		3.5	634			557		0191		5182								
011		G.R		0111		17 ±0		2226	265		-		_			5179								
			TO.	0125		.737		5 H	205		00	1550	7	0231		5181								
			TD	0150		1713		33	265			533		0269		5180								
011		ua		10155		1707		201	265				_	020		5130								
			Ĭ0	0.00		1641		25	200		33	1453	7	0345		5166								
011		OP		0217		151:		203	230				,	0 5		5100								
			TD.	0250		1572		13	267		30	435	a	0415		5151								
011		93		03.83		1532		0+2	657							140								
			F.	0300		14-3		144	257		an	371	3	0488		5132								
011		ЭH		TU345		1405		1646	250				-			5111								
			Ť٩	9+00		1304		06	254		aa.	257	-	061		5084								
011		0.6		0403		1299		654	.60		_ 0		-			5083								
			In.	JF 0 0		1123		4)	273		111	1+1	4	0739		5037								
			TU	0000		0947		520	272			900		UBAC		4,86								
011		UE		Qr 25		0903		104	2.72		500	,		0.040		973								
7.1			r)	0700		07+2		07	274		0	0501		1935		4931								
211		De		10756		UL F4		02 -	7.75		00.		_	2777		4897								

ID. COD		LATITU	DE LO	NGITUDE 100	MARSDEN	STATION THE	YEAR	ORIGINATO	ION	10	OF I	WAVE OBSERVATIONS	WEA- THEP CODE	CODES		51	ODC ATION UMBER
NO.	"	•	1/10	1/10	10. 1.	MO DAY HE	1,1/16	NO. NUA	ABER	501104131	MPL'S DI		-	1172 22	-		
176 EV	1 4	348	N 04	043 W	145 30		07 1357			+755	3	1 2 3		7 8	1	(0013
					_		IND BAR		vis.	NO. 085.	SPECIAL	1					
					COL		OI (mb		VET COD	DEPTHS	BSERVATION	45					
						3.2	513 23	4 150 1	17 7	1+		1					
MESS TIJ HR	ING4 MI of 1/10	CAST NO.	C ARD TYPE	DEPTN (m)	1.5	s ·/.	SIGMA-T	SPECIFIC VOLUME	₹ △ D 0 vn. w x 103	VELOC		11/1 FO4+P	TOTAL=F µg - e1/l	NO2+N µg - αt/l	NO3-N ug - ai/l	\$1 O4~\$1 ug + 01/1	,,
			STO	2023	1907	3509	2535	0021551	0000	1520	8			,	i	!	
' ;	207		ÐE.S	0000	1907	36066	2585			1520							
,			STD	0010	1405	3509	£565	0021544	0021								
			STD	0020	1909	3007	2585	JJ2168+	00+3								
2	207		OHS	0023	1909	35088	_5 s s			1521							
			SID	0030	1909	350R	258₩	0021770	0065								
	207		08.5	0040	1908	36080	2584			1521							
			STD	0050	1879	3512	2595	0020810	0107								
			STD	0075	1804	3620	2020	00185+3	0156								
	207		DHS	0031	1785	36211	2025			1516							
			SID	0100	1715	3622	2643	0016420	0200								
	207		ORS	0121	1655	36228	2058			1519							
			SID	0125	1648	3622	2059	0014973	0239								
			STD	0150	1510		2564	0014550	0276								
	207		08 S	TO172	1582		2658			151							
			SID	0200	15c7	3512	2670	0014137	0340								
	207		088	02.42	1527		2075			151.							
			STD	0250	1511	3603	2076	0013740	0418								
			STO	0300	1+25		2532	3013210	0489								
	207		08.5	3317	1402		2085			1510							
	207		088	T0396	1341		2693		0.11	150							
			210	0400	1339		2693	0012417	0613	3 150° 150							
	207		08.5	0468	1285		2699		0.73								
			STD	0500	1229		2702	0011787	0734								
			STO	06.00	1057		2714	0010731	084	150							
	207		OB \$	T0638	0992		2719	000000	094								
			SID	0700	0875		2731	0009068	0 741	149							
	207		08.5	0795	0729		2746	00075:0	102								
			STD	0800	0724		2747 2760	0007560	1029								
			STD	0900	0626		2768	0000325	109	148							
	207		QB S	10998	0552		2769	0005474	115								
			STO	1000	0551		2774	0005474	120								
			STO	1100	0497		2776	0004783	125								
			STD	1200	0466		2770	0004100	123	148							
	207		08.5	T1224	040	50029	2113			. , ,							

FERENCE	SHIP				# MARSDEN	STATION T	IME	_	ORIGIN	ATOR'S	_	DEPTH	MAX		WAVE		CLOUS		_	
ID.	CODE	LATITU		LONGITUDE	SOUARE	(G MT)		EAR	CRUISE 5	TATION		10	DEPTH	D\$	SERVATIONS	WEA	- CLOUD			NDDC TATION
NO.	-		1/10	1/10	10" 1"	MO DAY F	12,1/10			UMBER		IOTTOM	S'MPL'	S DIAL	HGT PER S					UMBER
11176	EN	4400	N C	4105 W	149 41	10 26	148 19	357	012 01	4		4792		30	1 4		8 2			0014
					W.		VIND	BARC	410.00		T	ND.		CIAL		'	1012	•	- 1	0014
					CDLD	TRANS DIR.	01992 10409	METE	R DRY	WET	COD	OBS. DEPTHS		CIAL 'ATIONS						
								(mbe			$\overline{}$	Otrins								
				, _	04	10	502	200	161	128	7	21								
	MESSENGE TIME 6 HR 1/10	CAST ND.	TYPE	DEPTH (m)	. 1 10	s ·4.	SIGMA	-1	SPECIFIC VOLU-	m,: 8	Δ D	SOL	DOITY	0 2 ml/	PO4=P 99 - 01/1	1014L-P	NO3-N	NO3-H µg - at/1	SI 04=Si ug + at/l	ρН
	- 1		S 1 0	0000	1893	3610	2590	1	0021110	0	300	152	205				_	_		_
	148		088	0000	1893	36104	2590		002111	, , 0.	000	153			1	'	1		1	1
			S T O	0010	1892	3611	2591		0021082	2 0	21									
			5 T D	0020	1891	3611	2591		0021072		042									
	148		08.5	0026	1890	36112	2591					152								
			STD	0030	1890	3611	2591		0021081	0	063	152	209							
			STD	0050	1368	3611	2592		0021124	. 0	105	152								
	148		08.2	0051	1888	36110	2592					152	212							
			STD	0075	1832	3621	2614		0019144		155	152								
	1.40		510	9100	1766	3625	2633		0017350	0.	201	151								
	148		085	01 03	1758	36255	2635					151	.85							
			STO	0125	1677	3620	2651		0015747		2+2	151								
	149		\$10	0150	1607	3615	2663		0014621	. 0.	280	151								
	145		085 STD	0156	1594	36142	2066					151								
	148		OB S	0200 T0207	1544 1536	3608	2672		0013904	0:	352	151								
	140		STO	0250	1460	36072	2673		0013.67			151								
			STO	0300	1423	3598 3589	2684		0013457		+20	151								
	148		085	0307	1415	35878	2685		0013038	0.4	96	151								
			570	0+00	1330	3577	2695		001227	0.4	1.5	151								
	148		085	0404	1326	35768	2695		0012276	0.0	13	150								
			STD	0500	1242	3565	2703		0011709		733	150								
	149		085	T 05 04	1235	35638	2703		0011709	0	33	150 150								
	•		510	0600	0978	3517	2716		0010477		344	149								
	148		OBS	0602	0973	35181	2716		0010411	0.0	,44	149								
			STD	0700	0808	3508	2735		0008658	0.9	39	149								
	148		OBS	10795	0687	35035	2748		0003030		. 7 2	149								
			STD	0800	0683	3504	2749		0007267	1.0	19	149								
			510	0900	0612	3507	2761		0006185		86	149								
	149		085	0984	0561	35072	2768					148								
			S T 0	1000	0552	3507	2769		0005469	1.1	44	148								
			SID	1100	0503	3503	2772		0005160		98	148								
			STO	1200	0464	3501	2774		0004945		48	148								
	148		085	T1231	0454	35001	2775					148								
			STD	1300	0440	3499	2776		0004854	12	97	149	01							
			210	1400	0.422	3498	2777		0004006	1.3	45	149	10							
	148		อห 2	T1492	0408	34968	2777					149	19							
			510	1500	0407	3497	2777		0004778		93	149	20							
			STD	1750	0389	3496	2778	-	0004833	15	13	149	55							
	101		STD	2000	0372	3495	2779	1	0004879	10	35	149								
	181		08 S	12069	0368	34944	2780					150								
	181		STD	250) 12596	0343	3497	2764	-	0004691	18	7 4	150								
	101				0337	34971	2785					150								
	181		ST0 08 S	3000	0311	3497	2787	-	0004532	21	05	151								
	161		08 S	3130	0302	34969	2758					151								
	101		STD	3667 4000	0266	34949	2790					152								
	181		210		0259	3494	2789	(0004495	25	56	152								
	181		085	T4207 4245	0239	34930	2790					153								
	181		280	T4550	0234	34932 34933	2791					153	21							

SHIP	LATITUDE	LON	GITUDE 5	MAR SOU	SDEN	STATE	ON TIA		AR	CRUIS	ORIGIN	ATOP'S	_	DEPTH	DEFTH		WAV SERVAT		WEA- THER	COOSS		S .	NODC TATION
1000	1/10		1/10	10*		MO D	AY HR			NO		HUMBER		MOTTOM	S'MPL	S DIR	HGT F	ER SEA	CODE	TYPE AM			UMBER
EN -	4400 N	04	054 W	149	1	-			51	D1.	01	5	- 1	4323		11	2 3	3		4 4			0015
CA 1	4400 14		35. 11	1 -	WAT	TEN	WI	NO T	IARO		AIR TE	MP. °C		NO.									
					COLOR	TRANS.	OIR	SPEED DB FDBC2	METE	R .	DRY BULS	WET BULB	CDDE	OBS. DEPTHS	OBSER	VATIONS							
					04	\vdash	0 ÷	512	159		1 > 3	150	7	14									
MESSENGE TIME O	CAST CA	RD PE	DEPTN Uml	,	τς	2	_	SIGMA		setcii	HE VOLU	Mt S	△ 0 N. M 10³		DCITY	O ₂ ml/		4-7	FOTAL-F	NO2-N ug - o1/l	NO3=N	51 O4=51	
NK 1770	-	7.0	0000	1	P 23	361	4	2592		20	2088	3 00	οo	1.5	205								
		וַ פֿזַ	0000		2-3	361		2592		50		2 , 0 .	-		205					'			
133	08	10	0010		993	361		2502		0.0	2091	9 00	20		207								
	90		0019		863	361		2592		50.	, ,				208								
133		10	3020		893	361		2592		00:	2057	5 00	41		208								
		TD	0030	-	394	361		2542			2103		0 2		210								
1.33			0038		854	361		2592		00.		, ,,			211								
133	OB	10	3050		d34	362		2616		0.0	1383	0 0	0.2		198								
		TO	0075		737	363		2650			1567		45		175								
	-				737	353		2650		00		, 0.			175								
133	90		0075	_	004	352		2656		0.0	1515	1 0	34		163								
122		TO	01 0-)		657	302		2059		50		, ,			157								
133	08		0116		649	362		2660		0.0	1484	7 0	21		156								
		10	0125			302		2000			1464		56		151								
		TO	0150		622 616	361		2664		0.0	1 404	_ 0,			150								
133	08		T0155		542	360		2673		0.0	1382	3 0	329		133								
		TO	0200			360		2679		00		, 0	, _ ,		123								
133	08		02 32		444	353		2681		0.0	1326	2 0	97		116								
		TD	0250		466						1283		102		102								
	-	GT	03 00		402	358		2686		00	1500	, 0.	-02		101								
133	OR	-	0300		396	358 358		2687							095								
133	08		T0359	-	348	358		2696		ac	1220	3 0	538		098								
		10	0400		342					00	1220	5 0	, 50		097								
1 3 3	08		0442		318	357		2098		0.0	1162	a 0	707		083								
		TO	0500		253	356				00	1162	7 0	01		047								
133	08		T05 82		110	354		2715		0.0	1032	- 0	17		030								
	-	10	0600		061	354							12		949								
	-	TO	3700		811	350		2733		UJ	0885	0 0	112		939								
133	09		0718		776	350		2735		0.0	0717		992		911								
		TO	0800		670	350		2750		00	0712	0 0	776		895								
133	08		T0870		1500	350		2750		0.1	0 5 0 0	7 1) E 7										
		TO	0500		576	350		2703			0589		057		890								
	-	TO	1000		519	350		2771		00	05 20	1	113		884								
133	0.0	S	T1038	C	508	350	144	2772	?					14	886								

D. O.	SHIP	LATITU		LONGITI	JO€ (§	20	RSOEN UARE	((ON TIN	^	EAR	CRUISE NO.		TOR'S ATIOH	-	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL"			TONS	WEA- THER CODE	CLOUD CODES			NODC TATION NUMBER	
+			1/10			10*	_					+ +		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+		3		-		-	+			001/	
76	EN	4355	N	04050) w !	1 +9					967	012	016	1		+346		13	2	3		4 6	I	-	0016	i
							WA	$\overline{}$	WI	591 ED	BAR) <u> </u>	IR TEM		vis.	NO. 085.		CIAL	}							
							COLON	TRANS.	OIR.	POICE	M ET I		JE I	WET C	ODE	DEPTHS	OBSERV	2 NOT A	1							
							04		12	13	19	-+	11	1 53	7	14										
- 1	MESSENG TIME HR 1/10		CAR		EPTH (m)		1 %	s	٠/	SIGM	1-7	SPECIFIC	VOLUM ALT-210	E S Z OYN	, D		ORITY	O2 m1/			01AL-P #g = 01/1	NO2-N ug + d1/l	NO3-N yg - al/l	\$1 O4-\$		5 C C
- 1			S1	го	0000		1896	350	9	258	8	002	1273	00	00	15	205		1] [
	1.3	o '	08.9	5 '	0000	. 1	1355	360	92	258	В					15	205									
			S 1	10	0010	1	1895	350	9	258	5	002	1300	0.0	21	15	207									
			S 1	ro i	0020	1	1355	300	9	255	ÿ	002	1320	00	• 2	15	20 d									
	13	0	085	5	2027	1	1895	350	92	253	9					15	210									
			S 1	ro .	0030	1	1882	350	9	259	2	002	1035	00	53	15	206									
			S 1	61	0050	1	1805	361	O.	201	2	001	9236	0.1) 4	15	189									
	13	0	083	5	0054		1795	361	06	261	5					15	130									
			S 1	C1	0075	1	1757	352	1	263	2	371	7335	01	49	15	179									
			S'	TD :	0100		1711	362	8	264	,	001	5 8 45	01	91	15	171									
	13	0	OB S	5	01 03		1096	362	33	205	3					15	167									
			51	TO	0125		1061	362	3	265	7	331	5156	0.2	30	15	159									
			51		0150	1	1615	351	7	266	3	301	4636	0.2	57	15	148									
	13	0	085	5	0162		1594	361	3.8	250	5					15	144									
			S	to.	0200	:	1539	350	5	267	2	001	3921	0.3	39	15	132									
	13	0	OR:		0216		1514	360	131	207	5					15	127									
			S.	TO	0250		1469	353	6	268	0	001	3335	Ú4	07	15	117									
			5	T O	0300		1411	358	53	268	6	001.	2879	0.4	72	15	105									
	1.3	0	083	S	0322		1339	353	48	268	ē.					15	101									
			S	T D	00+0		1347	356	31	269	•	001	2342	0.5	93	15	100									
	13	0	08	S	0423		1322	357	75	200	7					15	030									
			S.	TD	J5 90		1245	355	5	270	2	301	1755	0.7	19	15	081									
	13	0	08	S T	0536		1132	355	43	27)	7					15	0.03									
			S	TD	0600	1	0993	352	5	271	7	001	0326	0.8	29		003									
	13	0	08	S	3646	4	0982	35.		272							968									
			S	T D	0700		0805	350	7	273			57c5		25		747									
			S	TO	0060	1	0687	350	4	274	9	000	730 ₹	10	05		918									
	1.3	0	0.8	5 T	0863	1	0029	350	31	275							975									
			S.	TD	0000		0510	350		275			5347				704									
			S	TD	1000		05:2	350)5	270	5	000	5712	11	3 3		301									
	1.3	0	08	S	1063		05 Z =	350)53	277	1						901									
			S	TO.	1100		051 →	350		277			5262				901									
					1200		0451	55 (277			50J7		40		901									
					1300		04-4	350		277		000	4910	1.2	33		905									
	1.3	0	0.8		1355		0434	350		: 77							908									
					1400		0423	350		277			4077		30		711									
					1500		0-4	34:		277		0.10	4007	13	3 3		919									
	13)	08	S T	165→		0 = 0	3+	71	273	Ü					1 4	930									

Table III.—Continued

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C197 ID.	CODE	LATITUE	OE LC	NGI*UDE #50	10*	JARE	IGMTI MO DAY		YEAR	CRUISE S	TATION	DEPTH TO BOTTO	Utri		WAVE ERVATIONS HGT PER 3	THE COL	R CODES			NODC STATION NUMBER
311176	EN	4403	_		149	1		134	1957	C12 01		477:		16	3 3		5 8			001
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						CODE	le1 Oil	1010	, (mb	of BULB	SULT COC	OES. DEFTH	S DESER	2 MOIT AV						
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	MESSENGE TIME Q HE 1/10	ND.	TYPE	OEPTH (m)	,	4	5 %.	SIG	M A - T	ANDWALT-XI	# 1 5 A C DYH. A X 103	. SC	LOCITY	0 2 ml/l	PO4=P ## = 81/1	EOTAL-		NO3~H	\$1 O4-5	
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			STD STD	0010 0020		843 841	3583 3583	25 25		002134			189							
	139		OBS	0025		840	35834	25		002157	0043		191							
			STD	0030		539	3535	25		002175			191							
	139		015	0050 0051		537 837	3593 35933	25 25		002.21	. 0108		1 →5 195							
			STO	2075	1	799	3510	2 €	13	0019158		15	190							
	139		STQ OBS	0100		748 743	3620 36200	26. 26		0017338	0204		180							
			STO	01.25	1	660	3618	26		0015730	0246		151							
	139		S T D 0 B S	0150 0154		603 594	3614	26		0014629	0234		145							
	151		510	0200		519	3600	26		0013932	0 35 5		142							
	139		085	0205		511	35991	26				15	123							
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	139		08 S S T D	10517 0600		042 003	35226 3520	270		0014820	0844		007							
	139		085	0621	0	985	35192	27	15				006							
			S T O	0700 0800		812 649	3510 3502	27:		0008573			950							
	139		085	10836		o J6	35004	27		0005886	1018		891							
			STD	0900		576	3501	270		0006120			890							
	139		STO DBS	1000		534 518	3501 35008	270		0005657	1142		890							
			STO	1100		502	3501	27		0005334			893							
			STD	1200 1300		475 451	3501 3501	27		0005031			999							
	139		ORS	1313		443	35008	27	76			14	906							
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	139		OBS STD	1513 1400	0	443 430	35008 3500	27	76 78 79	0004742	1347	14 14 14	906							
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ry 10.		Ų, TITUS	OBS STD STD OBS	1512 1400 1500	0	443 430 411 399	35008 3500 3497 34974	27 27 27 27	76 78 79	0004742 0004587	1347 1394	14 14 14 14	906 913 922 931	H OBS	EVA TOHS	THE	COOFS		1	NODC STATION
10, DE ND.	139 SHIP COOE	-	OBS STD STD OBS	1312 1400 1500 T1581	O MASS	4443 430 411 369	35008 3500 3497 34974 STATION 1 IGM11	27 27 27 27 27 27	76 78 79 79	0004742 0004587	1347 1394	1 4 1 4 1 4 1 4	906 913 922 931	H 085	WAVE ELVATIONS NGT PER SE	THE	E TIPE AM		- 1	STATION
10. ND.	139 SHIP COOE	•	OBS STD STD OBS	1312 1400 1500 T1581	MASS SOU	443 430 411 399	35008 3500 3497 34974 STATION 1 (GMT) MD DAY F	27 27 27 27 27 27	76 76 79 79 YEAR	0004742 0004587 0004587 CEUISE S: NO. N	1347 1394 STOR'S IATION UMBER	14 14 14 14 14	906 913 922 931	H 085	HGT PIR SE	THE COO	E TIPE AM		- 1	STATION
10. ND.	139 SHIP COOE	•	OBS STD STD OBS	1312 1400 1500 T1581	MASS SOU	4443 430 411 369	35008 3500 3497 34974 STATION T (GMT) MD DAY IR J J J J J J IEER V	27 27: 27: 27: 27: 27: 27: 27: 27: 27: 2	76 78 79 79 79 YEAR 1-57 SARETE (Imber	ORIGINA ORIGINA CEUISE S: NO. N O12 O12 ORIGINA	1347 1394	14 14 14 14 14 10 10 10 10 10 10 10 10 10 10 10 10 10	906 913 922 931	H 085	HGT PIR SE	THE COO	E TIPE AM		- 1	STATION
10. NO.	SHIP COOE	4359	OBS STD STD OBS	1312 1400 1500 1500 11581	MAS SOU 10°	SOEN ARE	35008 3500 3497 34974 STATION 7 (GMT) MO DAT In LU 30 1 1184 VI 1184 OIR.	27 27 27 27 27 27 27 27 3 wiho 25 wiho 510	76 76 79 79 79 YEAR 1-57 METT (mbs	ORGIN: CBUISS S'NO. N C12 O12 OY BUIS OY CT 2 5	1347 1394	14 14 14 14 14 0 e0110# 4 2 2 8 NO. OSS. DEFINIT	MAX OEPTI OF SAMPL	H 085	NGT PIR SI	000	CODES E TYPI AM			MOITATE MERMUN M
10. NO.	139 SHIP COOE	4359	OBS STD STD OBS	1312 1400 1500 T1581	MAS SOU 10°	443 430 911 369	35008 3500 3497 34974 STATION T (GMT) MD DAY IR J J J J J J IEER V	27 27 27 27 27 27 27 27 3 wiho 25 wiho 510	76 78 79 79 79 YEAR 1-57 SARETE (Imber	ORIGINA ORIGINA CEUISE S: NO. N O12 O12 ORIGINA	1347 1394	14 14 14 14 14 0 e0110# 4 2 2 8 NO. OSS. DEFINIT	906 913 922 931	H 085	HGT PIR SE	THE COO	CODES FITH AM		- 1	S 100
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10. ND.	SHIP COOE EN	4359	ORS STD ORS STD ORS STD ORS STD OF STD	1312 1400 1500 11581 11581 104 w	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	443 430 911 309 11 WAAE 11 11 WAAE 2000E	3500 8 3500 3597 4 3497 4 3497 4 30 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	277 277 277 277 277 277 277 277 277 277	76 78 779 78 78 78 78 78 78 78 78 78 78 78 78 78	ONGINIC CRUSS 5 NO.	1347 1394 ATOR'S IATION'S IATION'S IATION'S WIT COO WIT COO IATOR'S	14 14 14 14 14 14 14 14 14 14 14 14 14 1	906 913 922 931 0pm M SARL 1900 188 138 138 143 143 143 144 145	H OBS	PO4-F	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
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10. NO.	139 SHIP COOE EN MESSINGS HE 1/10 123 123 123 124	casi No.	ORS STD ORS	1312 1400 1500 11581 11581 104 w	O O O O O O O O O O O O O O O O O O O	448 430 411 339 500N ARE 11 11 WANTA 6000E COORE COORE 77 644 67 77 64 67 77 66 67 77 67 6	35008 3500 3597 34974 STATION T GMT 10 30 1 14 30 1 15 4 4 7 4 15 5 4 7 4 3590 3592 35 27 35 5 27 35 5 27 35 5 27 35 15 37 37 37 37 37 37 37 37 37 37 37 37 37 3	277 277 277 277 277 277 277 277 277 277	76 779 78	0004742 0004687 0004687 0004687 012 012 012 7 225 001572 0021426 0021334 0021252	1347 1394 ATDR'S ATD	14 14 14 14 14 14 14 14 14 14 14 14 14 1	906 913 922 931 06FIT OF SWALL 000 OCT W 188 138 190 192 193 194 195 187 187 197 197 197 197 197 197 197 197 197 19	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
10. NO.	139 SHIP COOE EN M45SURGE 1 M47 10 12 3 12 3 12 3	casi No.	ORS STD ORS ST	1312 1400 1500 11581 1104 w	O O O O O O O O O O O O O O O O O O O	500H AAEE 11 11 WA'ACCOOR 12 11 11 11 WA'ACCOOR 12 11 11 11 11 11 11 11 11 11 11 11 11	3500 8 3500 3500 34974 34974 30 12 3 34974 30 12 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	277 277 277 277 277 277 277 277 277 277	76 779 779 779 779 784 779 784 779 784 787 784 787 784 787 787 787 787 787	O004742 0004687 OBGINIC CRUSS S NO. IN CRUSS S NO.	1347 1394 ATOPS INTERPLE INTE	14 14 14 14 14 14 14 14 14 14 14 14 14 1	906 913 922 931 0 OFFIT OFF 0 OFFIT OFFI 1 OFFIT OFFI 1 OFFIT OFFI 1 OFFIT OFFI 1 OFFIT OFFI 1 OFFI	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
10. NO.	139 SHIP COOE EN MESSING HE 1/10 12 3 12 3 12 3 12 3 12 3 12 3	CAS1 / MO.	ORS STD ORS ST	047H WI 050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O O O O O O O O O O O O O O O O O O O	448 430 411 339 500N ARE 11 11 WANTA 6000E COORE COORE 77 644 67 77 64 67 77 66 67 77 67 6	35008 3500 3597 34974 STATION T GMT 10 30 1 14 30 1 15 4 4 7 4 15 5 4 7 4 3590 3592 35 27 35 5 27 35 5 27 35 5 27 35 15 37 37 37 37 37 37 37 37 37 37 37 37 37 3	277 277 277 277 277 277 277 277 277 277	76 779 YEAR 1-57 79 20 10 10 10 10 10 10 10 10 10 10 10 10 10	0004742 0004687 0004687 0004687 0004687 00047 00	1347 1394 ATOP'S IATION IAT	14 14 14 14 14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	906 913 922 931 06FIT OF SWALL 000 OCT W 188 138 190 192 193 194 195 187 187 197 197 197 197 197 197 197 197 197 19	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
10. NO.	139 SHIP COOE EN MESSINGS HE 1/10 123 123 123 124	CAS1 / MO.	ORS STD ORS ST	1312 1400 1500 11581 1600 17581 1600 17581 1600 17581 17	O O O O O O O O O O O O O O O O O O O	500N A A A A A A A A A	3500 8 3500 34974 34974 34974 34974 34974 3562 3572 3575 375 3613 3613 3613 3613 3613 3613 3613 361	277 277 277 277 277 277 277 277 277 277	76 779 78 AF 1 - 2 7	0004742 0004687 OBGINATOR OBGINATOR	1347 1394 ATOR'S IATION'S IATION'S WE! COMP W!! VIL USA OOO 194 OOO OOO OOO OOO OOO OOO	14 14 14 14 14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	906 913 931 0856 931 0856 193 138 138 139 143 143 144 145 147 147 147 147 147 147 147 147 147 147	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
10. NO.	139 SHIP COOE EN MESSING HE 1/10 12 3 12 3 12 3 12 3 12 3 12 3	4,350 CAS1 HO.	ORS STD ORS ST	047H WI 050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O O O O O O O O O O O O O O O O O O O	448 430 431 3355 11 11 WAN COLOR COOR 7774 774 774 631 631 631 631 631 631 631 631 631 631	51ATION 1 (GMT) 34 97 74 51ATION 1 (GMT) 34 97 74 51ATION 1 (GMT) 1	277 277 277 277 277 277 277 277 277 277	76 779 779 779 779 779 779 779 779 779 7	0004742 0004687 OBGINA	1347 1394 ATOR'S IATION'S IATION'S WE! COMP W!! VIL USA OOO 194 OOO OOO OOO OOO OOO OOO	14 14 14 14 14 15 15 15	906 913 931 931 931 931 931 931 931 94 194 194 194 194 194 195 115 116 116 116 116 116 116 116 116 11	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
10. NO.	139 SHIP COOR EN MESSINGE 129 129 129 129 129 129	CA51 HO.	ORS STD	1312 1400 1500 11581 17581	O O O O O O O O O O O O O O O O O O O	448 440 430 411 300 10 10 10 10 10 10 10 10 10 10 10 10 1	35008 3500 34974 34974 STATION T MO DATIF 1	277 277 277 277 277 277 277 277 277 277	76 779 78 AIR 1 - 5 7	0004742 0004687 OBGINATOR OBGINATOR	1347 1394 ATORTS IATION IATION INTERVIE 1947 1947 1900 0021 0042 0042 0042 0056 0200 0240 0277 0347 0414	14 14 14 14 14 14 14 14 16 17 17 17 17 17 17 17 17 17 17 17 17 17	906 913 931 932 931 931 94 95 97 905 97 905 97 905 97 97 97 97 97 97 97 97 97 97 97 97 97	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
10. NO.	1399 Ship coot EN	CA51 HO.	ORS STD ORS ST	1312 1400 1500 1500 1500 1500 1500 1500 1500 1000	O O O O O O O O O O O O O O O O O O O	4 4 4 3 0 4 4 1 1 3 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3500 8 3500 34974 34974 34974 35141 3514	277 277 277 277 277 277 277 277 277 277	76 779 78 1 - 57 8ARM METT	ONGINIC STATE OF STAT	1347 1394 NIORS IATION UMER FUL UMER F	14 14 14 14 14 14 14 14 14 14 14 14 14 1	906 913 931 932 931 932 931 932 931 932 933 933 933 934 94 94 95 97 97 97 97 97 97 97 97 97 97 97 97 97	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
10. NO.	139 SHIP COOR EN MESSINGE 129 129 129 129 129 129	435Q	ORS STD	1312 1400 1500	O O O O O O O O O O O O O O O O O O O	4 4 4 3 4 4 4 4 3 4 3 4 4 4 4 4 3 4 3 4	STATION 1 STAT	277 277 277 277 277 277 277 277 277 277	76 77 77 77 77 77 77 77 77 77 77 77 77 7	0004742 0004687 0004687 0004687 0004687 0004742 0004687 0012 013 748 012 012 013 013 705 014 25- 013 705 014 25- 013 705 014 25- 013 705 014 25- 013 705 014 25- 013 705 014 25- 013 705 014 25- 013 705	1347 1394 NIDETS ATTION P	14 14 14 14 14 14 14 14 14 14 14 14 14 1	996 992 931 0818 0818 0818 190 193 194 195 1195 1195 1195 1195 1195 1195 1	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ -\$1	100
10. ND.	139 SHIP COOK EN MESSHEGS 104 123 123 124 127 127 127 127 127 127	435Q	ORS STD	1312 1400 1500 11581 1600 17581 1600 17581 1600 17581 1600 160	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	506N (ARE 11) (WACA CODE 11) (WACA C	35008 35008 35008 35008 3697 34974 **********************************	277 277 277 277 277 277 277 277 277 277	76 77 77 77 77 77 77 77 77 77 77 77 77 7	0004742 0004687 0004687 0004687 0004687 00107 00107 00117	1347 1394 1394 1394 1394 14 7 1500 194 7 1004 2 100	14 14 14 14 14 14 14 14 14 14 14 14 14 1	906 912 931 0000 0000 0000 0000 0000 0000 0000	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ \$1	100
10. DE NO.	139 SHIP COOK EN MESSHEGS 104 123 123 124 127 127 127 127 127 127	Q 3 5 Q	ORS STD ORS ST	1312 1400 1500	0 0 0 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1	500N (ARE 11 11 12 12 12 12 12 12 12 12 12 12 12	STATION 1 STAT	277 277 277 277 277 277 277 277 277 277	76 77 77 77 77 77 77 77 77 77 77 77 77 7	0004742 0004687 0004742 0004687 0004742 0004687 0012 012 012 012 0021572 0021426 0021344 00113748 00113748 00113748 00113748 00113748	1347 1394 NTOFS ATOMS MATCH MAT	14 14 14 14 14 14 14 14	996 9122 931 0818 0818 0818 130 0818 130 144 145 147 147 147 147 147 147 147 147 147 147	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ \$1	100
10. ND.	1399 Ship coot EN	Q 3 5 Q	ORS STD ORS ST	1312 1400 1500 1500 11581 1600 17581 1600 1600 17581 175	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 4 3 0 4 1 1 3 3 4 4 4 4 4 4 4 1 1 3 3 4 4 4 4	3500 8 3500 34974 STATION T	27 27 27 27 27 27 27 27 27 27 27 27 27 2	76 77 9 YEAK 1 - 2 7 AAKK 1 1 - 2 7	0004742 0004687 ORIGINAL CRUISES SALE TENDE COLUMN SALE TEN	1347 1394 ITOMS INTOMS	14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	996 9913 9922 9931 STATE S	H OBS	PO4-P	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ \$1	100
10. DE NO.	1399 Ship coot EN	CAS1 MO.	ORS STD ORS ST	1312 1400 1500	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	STATION 1 STAT	277 277 277 277 277 277 277 277 277 277	76 77 77 77 77 77 77 77 77 77 77 77 77 7	0004742 0004687 0004742 0004687 0004742 0004687 0012 012 012 012 0021572 0021426 0021344 00113748 00113748 00113748 00113748 00113748	1347 1394 NTOFS ATOMS MATCH MAT	144144	996 9122 931 0818 0818 0818 130 0818 130 144 145 147 147 147 147 147 147 147 147 147 147	H OBS	PO4-F	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ \$1	100
DE NO.	139 SHIP COOE EN MESSING I 123 123 123 124 125 127 127 127 127 127	CAS1 MO.	ORS STD	1312 1400 1500 11581 1500 11581 1500 11581 1500	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 3 0 4 4 1 1 7 3 5 0 6 N	STATION T STAT	277 277 277 277 277 277 277 277 277 277	76 77 77 78 78 78 78 78 78 78 78 78 78 78	0004742 0004687 0004742 0004687 0004742 0004687 0012 012 012 012 012 012 012 1426 0021323 0021426 0021325 0014333 0012313 001325 0012333 0012313 0013355 0012333	1347 1394 NIDES NATIONS NATIONS NATIONS 19 T	14 14 14 14 14 14 14 14	906 9122 931 932 931 932 932 933 933 933 933 933 933 933 933	H OBS	PO4-F	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ \$1	S 100
	139 SHIP COOE EN MESSING I 123 123 123 124 125 127 127 127 127 127	CAS1 MO.	ORS STD ORS ST	1312 1400 1500 1500 11581 1600 17581 1600	MAR SOU 10" 14 7 7 11 11 11 11 11 11 11 11 11 11 11 11	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	35008 3500 3500 34974 MO OATIE 10 30 1 11	277 277 277 277 277 277 277 277 277 277	76 77 77 77 77 77 77 77 77 77 77 77 77 7	0004742 0004687 OBGINATOR STATE	1347 1394 1394 1394 1394 140 150 150 150 160 160 160 160 160 160 160 160 160 16	14 14 14 14 14 14 14 14 14 14 14 14 14 1	9909 9913 9913 9913 9913 9913 9913 9913	H OBS	PO4-F	OO OO	CODES FITH AM	NO ₃ =H	\$10 ₄ \$1	B 100

Table III.—Continued

IO.	SHIP	LATITUD	E LON	GITUDE 500	MARS SOU-	OEN ARE	1	ON TI	41	AR C	ORIGIN RUISE S	TATION		DEPTH TO BOTTOM	DEPTI	O85	WAVE SERVATIONS	WEA- THER CODE	CLOUD			NODC STATION SUMBER
NO.			1/10	1/10 3 3	10*	1.	MO (H YA	R,1/10		NO. N	UMBE	-		S'MPL	'S DIR	HGT PLE SE	A	+	1 -	-	
1175	FN	4358	N 04	042 W	14 -	30	1 1 3	1 1	40 19	57	L12 01:	9	- 1	+775		16	2 3	ļ	3 7		1	0019
					· 1	WA	TER	W	INO	BARO-	AIR TEA	4P. °C	VIS	NO.		ECIAL						
					ì	COLOR		DIR	SPEED	METER	ORY	WET		OBS. DEPTHS	DRSER	VATIONS						
						CODE	let	-	FORCE	(mbx)	BULB	SULE	-	OCT THIS								
								1.7	500	172	211	1 4		14								
ſ		T			$\overline{}$		1				PECIFIC VOLU	Mr.	Δ D	1 50	UND		PO4=P	TOTAL -P	NO2-N	NO3-N	5104-5	
	MESSINGE SIME	NO.	CARD	OEPTH (m)	T	₩.	5	٠/	SIGMA	-1	ANDMALT-ET	07	103 R 103		DCITY	0 2 m1/1	μg + α1/I	yg = 01/1	μg + αI/I	yg - at/l	99 - 01/	
ļ.	HR 1/10				+-				+					+			_		-	 	-	+
- [5 []	0000	1.1	470	359		2583		002187	1 (000		196		1		1			1
	1.40)	OBS	0000		₹70	35		2583						1 +6							
			STD	0010		353	: 5		2584		J02171		021		1 +6							
			510	0020		457	3.5		2506		JU2160	5 (043		196							
	140)	045	0027		2 - 4	30.		2586						196							
			STD	0030		9 = 3	30		200		002154		065		196							
			STU	0050		847	35		255		002149	2 (108		198							
	140)	088	0053		346		322	2588						198							
			SID	0075		د - 7	350		2612		001 +24		159		108							
			510	010)		732	36		2635		001715	5 (204		175							
	140)	OB S	0105		717		05	2641						172							
			STO	0125		571	350		2644		001643		246		161							
			STO	0150		<u>-07</u>	35	38	255	J	001555	d (36ء	15	1 44							
	140)	085	0160		5 40																
			STD	0200	1	450	351	42	207	-	001350	2 (361		102							
	140)	095	10215	1	41 =		7 -5 -	257						093							
			STO	0250	1	3:4	35		2687		001300		1428		090							
			STO	0300		354	35		268		001260	7 (472		085							
	140)	OB S	0317	1	333	35	744	259						083							
			STO	0400		265	35		269		001130	В (615		071							
	140)	08.5	0425		236		525	270						065							
			SID	0500		119	35		271		001085	1 (728		034							
	14)	088	10532	1	000		361	271						020							
			510	0600		742	35		272		000945	0 (1827		985							
	1 40	0	0 d S	0635		885		194	273						969							
			SID	0700		804	3.5		274		000793		916		948							
			SID	0800		654	35		275		000263	9 1	990		922							
	140	0	088	10840		055		122	276						913							
			STD	0900		601	35		27c		330585		052		901							
			STD	1000		527	3.5		217		000529	4	108		866							
	14	0	08.5	1051		500		031	277						384							
			SID	1100		487	35		277		000498		159		887							
			STU	1200		464	55		277		000482		208		894							
			STD	1300		443	3.5		277		000470	4	256		902							
	14	0	OBS	11310		441		016	277						903							
			STO	1400		425	35		277		000462	-	303		911							
			S T O	1500		40)	35		278		000458	1	349		921							
	14	0	OBS	11589	0	397	34	987	2 7 8	0				14	931							

ID.	SHIP	LATITU		LONGITUDE	M AXS SOU	ARE	1G	N TIN	YEAR			ATOR'S TATION UMBER		0110	MAX. DEPTH OF S'MPL'S		WAVE SERVATIONS	CODE	COOES	_	S	HOOC TATION UMBER	
10.			1/10	1710	10	1	_	AY HR.		+		_	+		3 12 3	_	1-1-		5 5	1 -		0020	
75	EN	4400	N L	04106 W	149		11]			7 0	12 32		4	755	_	04	3 3	52	515	ı	1	00201	
					-	WAT	_	wı		RO-	A IR TEA		vis	NO. OBS.	SPEC								
						COLDS	18ANS.	DIR		ÉTÉR nbal	DRY	WET C	out.	DEPTHS	OBSERV	A TION S							
					ŀ		-	01		27	156	150	, †	13	_								
								0 !	212		1.70						_	1	T		1		T.
	MESSENGE TIME	CAST	CARD	DEPTH (m)	1	℃	5 '	4.	SIGMA-T	SPI	TOPIC VOLU	2 UTN	, M	VELOG		02 ml/	PO4-P	101AL-F		NO3=N ye - at/l	\$1 O4-\$1 yg - 01/1	pN	S
	NR 1/10	T NO.	1176				-			\perp		3 1	0,	+	-		1,		1.4	74 - 4-1	-	-	+
			STO	0000	1 1	P34	1305	6	2571	0	1022 42.	1000	U	151								1	1
	006	,	085	0000	1 .	334	335		2571					151									
			STO	0010	1:	334	350	6	2571		102293.			151									
			ST	0020		335	350		2571	0	1022340	004	+5	151									
	006	5	OBS	0021		835	356		2571					151									
			ST			868	350		2571	0	1022990)))(8	151									
	006	5	098	0044		333	350		2572					151									
			SI			835	359		2534		002136			151									
			ST			912	352		2523		101321	9 010	5.5	151	91								
	006	5	ORS	0.0.57		85 3 Q			26250				. 7	161	0.5								
			ST			798	354		2643		01644			151									
			ST			754	30+		2551	Ų	001571	0 024	+ 1	151 151									
	306	6	OBS			742	304		2654 2657		01525	3 U2		151									
	201	,	SŤ			704	363 362		2561		101323	0 2	30	151									
	006	6	2 ° C 1 S			55 7 504	351		2555	2	01451	0.3	50	151									
			S T			512	300		2675		01382			151									
	0.06		OH S			495	359		2675	,	,01,00		•	151									
	000	0	SI			427	355		2532	-	001327	4 04	94	151									
	00	6	085			369	357		2657					150									
	00.	~	ST			347	357		2691	C	01257	4 06	28	150									
	0.04	ь	OBS			315	357		25 +7					150									
		-	SI			189	355		2702	0	001175	- 07	51	150	159								
	006	6	08.5			157	354		2703					150	50								
			ST			930	353		2724		000974	5 0B	58	150) 1								
			ST	0 0700	0	812	351	7	2741	Ç	000503			149									
			SIT	0000	0	073	350	B	2754	(000683	0 10	<i>i</i> 1	149									
	0.0	6	UR S			002	3 > 0		2760					140									
			ST			5 7 d	350		2762		300501			146									
			ST			514	350		2768	(000547	3 11	43	140									
	0.0	6	OP S			47+	349		2772					148									
			SŦ			474	349		2772		003533			1 + 6									
			ST			441	349		2775		000454			148									
			ST			422	345		2776	(000475	4 12	44	145									
	0.0	5	N9 5	T1357	()	417	349	59	2770					149	, ,0								

NCE ID.	SHIP	LATITU	DE LO	NGITUDE BY		RE	STATION TI		TEAR	CRUISE		ATION	\dashv	DEPTH TO BOTTOM	MAE. DEPTH OF			ATIONS	THER	CLOUD	.1	5.	TATIO
0.		·	1/10	1/10	10"	1"	MO DAY H	R.1/10		NO.	N	UMBER	-		S"MPL"	1	1	PER 587	1	11PE AM	+		
75	EN	4357	N 04	113 h	149	31	11 02 1	35 1	467	012	021			4773		36	. 4	3		5 8			002
						W A1	ER V	IND	BARG	>- ├─	AIR TEN	Pt	VIS	NO.	SPE	CIAL							
					(CODE	TEANS DIR	DI FOICE	(mba		DAT	WET	CDD	OBS DEPTHS	OBSERV	ATIONS							
							36	\$15	23	+ 1	56	150	7	14			_						
- 1	MISSENGE TIME O	CAST NO.	CARD	DEPTH (m)	1	τ	s */	SIGM	A = T		VOLU4	, 15 D	△ D rN. M L 10 ³	SO! VEL	OCITY	0; ml/		104=2 8 - 41/1	FOTAL=P	NO2=N va - ot/l	NO3-N HB = 81/1	SI O4-Si u4 - at/l	
			STO	0000	19	31	3561	250	8	002	3231	. 0	000		181							ļ	1
	135		DBS	0000	1.9	31	35507	250	8						181								
			STO	0010	18	31	3502	256	9	002	3165	0	023	15	103								
			STO	0020	1.8	30	3553	157	0	302	3100	0	046		184								
	135		DRS	0023	1 8	30	35635	257	0						185								
			SID	0030	1.3	40	3569	257	2	002	295	0	960		189								
	135		085	0045	18	145	35789	257	8						195								
	•		STO	0050	1 8	31	3584	258	6	002	1709	0	114	15	192								
			STD	0075	1.7	66	3505	261	В	201	8075	0	164	15	180								
	135		OBS	0006	17	122																	
			STD	0100	17	18	3020	264	1	001	5619	0	20 B	15	172								
			5.10	0125	1 é	88	3627	265	4	001	5487	0	248	15	168								
	135		OBS	0141	16	64	36270	266	0						163								
			STD	0150	16	45	3624	266	2	001	481	0	280	15	159								
	135		OB S	10191	15	70	35110	266	9					15	141								
			5.10	0200	1.5	559	3009	267	0	001	416	0	359	15	138								
			SID	0250	14	, 7B	3600	207	6	001	369	0	428		127								
	135		085	0277	14	68	35952	267	9					15	121								
			510	03.00	14	+45	3592	268	12	001	320	3 0	496		117								
	135		QB S	0367	13	378	35828	268	9						105								
			510	0400	1.3	344	3578	263	13	001	250	1 0	625	15	099								
	135		ObS	10462	1.2	81	35696	269	9					15	087								
			STD	0500	10	40	3519	270	15	001	134	9 0	744		003								
	135		085	0543	0.6	328	34766	270	7						926								
			STO	0600	0.7	759	3478	271			1995		850		909								
			STO	0700	06	666	3 → 81	273	4	000	055	0	943		890								
	135		085	T0725	06	49	34810	273	6						887								
			STO	0900	0.6	525	3493	274	8	000	1725.	2 1	0'22		892								
	135		08\$	0895	05	591	35019	276	0						895								
			STO	0900	06	539	350 <i>2</i>	276	0	000	16131) 1	089		895								
			STO	1000	05	544	3503	276	c	000	565	3 1	148	14	894								
			STO	1100	05	504	3503	277	2	000	518	5 1	203	14	894								
	135		085	T1135	04	91	35034	277	3						895								
			STO	1200	04	·57	3503	277	15	000	9487		253		847								
			STO	1300	04	440	3501	277	7	000	473	3 1	301		901								
	135		08.5	T13 93	04	+17	3+977	277	7.7					14	907								

	SHIP	LATITU	ns.	100	GITUDE É	E MAR	SDEN	STA	TION TH	ME	TEAR		ORIGIN	_			EPTH TO	DEPTE		SERV	A TIO	NS	WEA		auo.		5	NGDC TATION	
	CODE		1/10		1/10	10"	1.1*		DAY H	1/10		NG C#UIS		TATI			MOT	S'MPL	'S Da	HGI	rie l	SEA	CODE		I AM	7		THEMUS	
,,	EN	4349	_	04	1 05 h	145	31			-	957	61.	024	_		4.8	28		35	$\overline{}$	2			5	7			0022	
,	1	4347		,		1.		TER		INC	348	1	AIR TEA			Τ.	10.			٦′-	-		,				,		
							cora	TRANS	Du.	59810	MET	ta	DBA	WI		Li c	100		ECIAL VATIONS										
							CODE	(m)	000	FDFCE	Lm b	10	BULB	BU	LB	DE	PTHS			ł									
									35	\$17	27	4 1	150	1.2	28 7	1	4												
- [w#551NGI	CAST	CA									SMCH	ic volu		ΣΔ	0	200	IND.		T	PO4-		OTAL-F	NO.	2-H	NO1-N	5104-5		7
	TIME	NO P	TŶ		DEPTH (m)	'		S	*/	SIGN	T-A		MALT-BI		DYN I 10	M.	VELO		02 ml/				rg = 01/1		61/I	μg = e1/1	μg = 01/1		į
- 1	HR 1/10		-			-		+		-						-+				-+-	_	-+-				_	_	1	-
		1		TO	0000		H17	3.5		257		1002	2217	3	0001) (151			ı						1		1	
	12	3	08		0000		817		707	257				n			151												
				TD	0010		818	35		257			1222		002		151												
		_		TD	0020		219	35		257		002	2227	2	004	4	151												
	12	3	JH		0023		617		709	257		3.11			0.04		151												
	1.7	2		10	0030		920	35		257		002	2232	9	006	0	151												
	12	4	9.0	10	0048 0050		521 813	35	70 7	257		000	2210		011	,	151												
								30		261			1305		016		151												
		2	08	TO	0075		795		307	201		001	1305	-	010	_	151												
	12	7		TD	01 20	_	765	35		263		0.01	1694.	4	020	7	151												
				10	0125		734		34	264			1602		024		151												
	12	3	DP.		0135		716		355	200		00.	.002	,	02.		151												
	1 4			.10	315)		689	36		265		0.01	1529)	U 28	7	151												
	1.2	2	08		10182		624		207	200				-			151												
				TD	0200		524	36		265		001	1-386	6	036	1	151												
				TD	0250		416	3.5		261		JUI	1359	4	043	1	151	122											
	1.2	3	DB		0266	1	459	3.5	514	25	7 6						151	116											
			S	TO	0300	1	426	25	r 3	267	19	001	1357	1	050)	151	110											
	1.2	3	O.P.	S	035U			30	715																				
			S	TD	0400	1	326	35	51	66	3.3	001	1337	В	063	4	150	391											
	12	3	пв	5	T0424		301	3.5	580	25	16						150												
			S	TO.	0500		223		5.8	27.		001	1183	l	075	1	150												
	12	3	ÜH		J5 03		210		564	270							150												
				10	0500		1900		06	271		30)	1011)	057	1	14:												
	1.2	3	CB		1000		770		304	273							144												
				TΠ	7700		747		75	2.7			1323		096		149												
				10	0.00		6 17		0.3	ر 7 ا		000	46 46	7	104	1	149												
	1.2	3	C_{1,i_1}		0910		lesi		033	27:							149	_											
				T :) = /)r ! 3		ga .	270			75 78		110		19:												
				T2	1000		0550	? 5		27:		300	0547	9	116	*	14:												
	1.2	3	09		T10.2		1534		054	2.76			5-1-5		1 2 2	7	140												
				TO	1100		550)		04	27			0010		121			893 356											
		_		TD	1200		1463		01	2.7		UUI) 4 년 9	-	120	f		854											
	12	*	ÜВ	. 2	T1255	Ĺ)467	54	973	27	10						140	071											

Table IV.—Observed and interpolated oceanographic data for stations taken by USCGC OWASCO at Ocean Station DELTA, 30 November–15 December 1967, prepared from NODC listing No. 31–1184 OW.

REFERENCE CTOY ID.	SHIP	LATITUI		LONGITUDE	SOI SOI	SDEN	STATION		YEAR	CRUISE	STATIO	N	DEPTH TO BOTTOM	DEPTH OF S'MPL	G8		VE ATIONS	WEA THER CODI	CODES		2	NODC TATION IUMBEP	
-	-		1/16		10*	10		173	1967			_	4572	12	14	+	3	21	5 8	+	_	0001	
311184	OM	4410	N	04056 W	149	_	11 30	_	1901	- 1	_		4012	12	14	. *	2	21	13/0			0001	
						WA		WIND	BAI	0-	MP. C	- vis.	NO.		CIAL								
						COLOR	TRANS DIR		1000		W E1		OBS. DEPTHS	OBSERV	2 NOIT AV	1							
							17	511	99		17.	_	14			1							
							1 1	311	77	0 112	1.		1,7			4							$\overline{}$
	MESSENGE TIME HIE 1/10	CAST NO.	CARE		,	D* 10	s */	ЯG	MA-T	SPECIFIC VOLI	10 ⁷	Z A D DYN. M X 10 ³	VELO	OPIL	02 mi/		O4=P p + 69/1	101AL=9 yg + s1/1	NO2=N ug + at/l	NO3-N up - at/l	51 ⊕4~21 h8 • 84	ρН	000
			ST	0 0000	1	684	3572	26	12	001899	7	0000	151	139		-			Ì			ĺ	Н
	173	3' '	085	0000	' 1	684	35720		12				151	139 '		·							
			S.T.		1	684	3574		14	001887	3	0019	151										
			ST	0020		683	3576		15	001877	9	0038											
	173	3	085	0020	1	683	35756	26	15					43									
			ST	0030	ı	685	3576		15	001884	9	0057											
	173	3	085	0039	1	686	35757		15					L 47									
			ST			685	3576		15	001890	15	0094	15										
	173	3	085	0059		684	35759		15					150									
			5 T			670	3579		21	001841	8	0141	151										
	1.73	3	085	0078		667	35803		23					48									
			ST			645	3603		45	001619		0184											
			ST			605	3613		63	001462	7	0223											
	173	3	085	T0125		605	36134		63					141									
			ST			545	3603		68	001415	2	0259		125									
	173	3	280	0157		530	36008		70					121									
	_		ST			463	3550		76	001350	16	0328		106									
	173	3	085	0233		425	35852		81					199									
			ST			415	3585		63	001302		0394		98									
			51			387	3584		88	001264	1	0458		97									
	173		085	F0317		377	35840		90					97									
	173	•	085	0390		335	35773		94	001222	7	0583		094 095									
			12			333	3577		94	001233		J > 8 3											
	173	,	085	T0464		322	35778		97	001174	,	0704		102 186									
			ST			259	3569		15	001063		0816		342									
			ST		1	095	3545		15	001003	9	2010	150	342									
	173	•	280 12	0619		948	35407 3524		25	000979	a .	0918	150	003									
							35144		29	000919	,	0 41 9		984									
	173	,	085 ST	T0755		875	3513		37	000866	7	1010		970									
			ST			706	3510		51	000731		1010		943									
			5 T				3507		61	000628		1158	149										
			ST			610	3507		69	000554		1217		905									
	173		085	T1165		489	35013		72	0000004	~	1211		399									
	173	,	002	11103	·	707	37013						1.40	,,,									

REFERENCE	SHIP					E 5	MAR	SDEN	STATE	IT NE	ME				NATOR		Ţ	DEPTH	MAX.		WAV	E	WEA-	CLOUD			NODC	1
CODE NO.	CODE	LATITU		LONG		황실						YE AR	CRU	ISE	STATIO		100	OT MOTE	OF				THER	CODES			HOITATE REMUN	1
	-		1/10		1/10		10*			AY HI			_	-			+		S'MPL"	-		51.A	-	TYPE AM	-	-		-
311184	OH	4356	N	041	01 W	.	149			_		196	7 01				4	892	13	24	1 2			6 6			0002	ļ
								WAT	ER	W	ОИ	II BA		AIR TE	_			NO.	SPE	CIAL								
								COLOR	TRANS	OR.	SPEED	1		DAT	SUI.	† co		OIIS.	VERNO									
								CODE	un1	-	FOIC		_		+		_				4							
										26	521	04	*1	183	1.2	2 7		14										
	MESSENGS TIME	CAST	ÇAR	tn I					Π.				SPEC	HE VOL	UMF	₹ △ DYN.	D	SOL	IND		20	4-P	TOTAL-P	NO2-N	NO ₃ -N	\$104~5		5
	TIME	MO.	TYP	E	DEPTH U	n)	'	ς.	2	·/	SIG	M A -T		DM ALT -E		DYN.	Μ.		CITY	03 wl		61/1	yg • a1/1	μg = α1/1	va - al/1	yg - 01/		Č.
	HR 1/10	1		-	00.00		١,	4.4.0	257		26	1.7	100	1851	4	000	_	151	7.6		-+-	-				_	+	
	1	ļ	ST OBS		00 00			669	357		26		[00	1001	4	000	U	151				E				l	1	11
	12	1	51		0010			670	357		26		0.0	1856	7	001	0	151										
			S 1		0020			671	357			17		1861		003		151										
	12	,	089		0020			671	357		26		0.0	1 001	. 0	003	•	151										
	12	•	S1		0030			672	357			17	0.0	1868	0	005	4	151										
	12	7	085		00 45			673	357			17	00			505		151										
	12	•	51		0050			673	357			17	0.0	1874	. 1	009	2	151										
	12	7	085		0069			672	357		26		-		*	00,	-	151										
	12	•	51		0075			686	359		26		0.0	1790	7	013	g	151										
	12	7	0.85		0090			705	362		26		•		•	,,,,	_	151										
	1.0	•	51		0100			688	362			49	0.0	1588	13	018	1	151										
			S 1		0125			640	361			58		1505		022		151										
	12	7	Q p S		T0136			618	361		26						-	151										
				r o	0150			583	361			66	0.0	11439	7	025	7	151										
	12	7	083		T0173			535	360			70						151										
			SI		0200			508	359		26		0.0	1402	1	032	8	151										
			51	ro	0250)	i	456	356	7	26	76	0.0	1372	7	039	7	151	112									
	12	7	063	S	0256		1	450	358		26	76						151	11									
			S1	ΤO	0300)	1	399	358	4	26	86	0.0	1290	9	046	4	151	101									
	12	7	085	S	T0330)	1	372	358	27	26	90						150	97									
			51	10	0400)	1	334	357	6	26	93	0.0	1245	3	059	1	150	95									
	12	7	085	S	0408	3	1	3 30	357	55	26	93						150	95									
	12	7	085	S	10490)	1	302	357	39	26	98						150										
			S 1		0500			283	357			99		1207		071		150										
			51	T O	0600)	1	100	354	2		12	0.0	11095	0	082	8	150										
	12	7	085	S	0534		1	041	35 ±	36	27							150										
			S 1		0700			1928	352			26		0968		093		149										
				10	0800			780	350			37	0.0	0856	4	102	3	149										
	12	7	083		10805			1773	350		27							149										
				10	0900			1659	350		27			0705		110		149										
				T D	1000			1566	350		27			0595		116		149										
				T D	1100			500	350		27			0526		122		148										
				10	1200			1461	350			74		0494		127		148										
				T D	1300			1451	349		27		00	0500	10	132	3	149										
	12	t	06	2	T1311	L	C	145I	349	89	27	14						149	101									

Table IV.—Continued

	10.	SHIP	LA TITU		LON	GITUO!	sor	SOEN		ION F		YEAR			ATION		OEPTH TO BOTTOM	DEFTH	1 0	n S E R	A VE VA TIONS	11	EA-	CLOUD		5	NOOC 1ATION
CODE	NO.	-4	<u> </u>	1/10		1/10	10.	10	MO				-		UMBER	-		3 mrt	+		ST PER SE	A		ITPE AM	-	_	
311	184	DW	4403	N	04	105 W	149	41	12	03	23	196	7	013 003	1	_ 1	4572	14	15	4	2			6 6	l		0003
								WA	TER		ONLA	BA	20.	AIR TEA	1P. 1C	VIS	NO.	5 # 1	CtAL								
								COLOR	TRANS	DIR	59610	177	111		WET	coo	OBS. OFFTHS		MOTTA	5							
								CODE	+	14	1010	•	_		172	7	14	-		+							
										1 4	510	1 1.	30	1111				L.,		<u>اب</u>		,					,
		MESSENGE		CAR	ı _D	DEFIN UNI	Ι,	70	١,	٠/	810	MA-1	-	SPECIFIC VOLUM	gr 3	AN. M	sou	UND	O 2 m1.	,	*O*	10141	L = P	NO2-H	NO3-N	\$104-\$1	
		TIME NR 1/10	NO.	TYP	·E	OCTIN MI	1		1	•••	,,,,	m. ~ - ,		ANOMALT-ET	η,	X 103	. AETO	DCITY	.,	.]	μg = α1/1	10 - 1	11/1	µg = et/l	μ η - α1/ [μg - at/i	
				5.1	ro	0000	1	703	35	78	26	12	Ť	0018991	. 0	000	15	146					\neg				
		123	3	085		0000		703		780		12			,		15	146		,		1	,			'	
		•			O	0010	1	701	35	78	26	12		0019007	7 0	019	15	147									
				\$1	0	0020	1	696	35	77	26	13		0018956	. 0	038	15	147									
		12	3	085	š	0023	1	695	35	771		14						147									
				51	O	0030	1	690	35	77	26	15		0018868	3 0	057	15	147									
		12	3	085	5	0046		679		75 0		16						146									
				51	O	0050	1	676	35	76	26	17		001868	9 0	094		146									
		12	3	085		0068		669		763		19						147									
					Ø	0075		669	35			19		0018555	, (141		148									
		123	3	085		0091		669		780		20						151									
					0	0100		668	35			32		001743		186		153									
					0	0125		665	36			54		001540	, (227		160									
		12	3	08		T0137		663		262		59						162									
					ס	0150		628	36			61		001481		265		153									
		12	3	085		0181		554		055		68		001101				133									
					O	0200		514	35			72		0013931		1337		123									
					D	0250		430	35			80		001325	9 (405		103 098									
		12	3	085		0271		405		826		83		001287		470		098									
					0	0300 T0363		390	35	806 806		86 91		001207	•	7,0		098									
		12:	3	08	s Fo	0400		352		80 80		92		001252		1597		102									
		12		0B:		0400		327		80 776		96		001232	, .	1371		101									
		12.	,		10	0500		288	35			99		001209	, .	720		096									
		12		08		T 05 3 7		248		657		702		001207				088									
		12.	,		ΙD	0600		128	35			710		001117	3 (1836		054									
					I D	0700		955	35			122		001006		1943		005									
		1.2	3	OB:		0721		921		181		125						996									
			-		10	08 00		1080		12		73.9		000844	7 1	035	14	963									
					τo	0900		673	35		27	751		000721	1 6	113	14	929									
		12	3	0.8		0901		672		043		751			_			929									
					T D	1000		0622	35	03		757		000673	0 1	183	14	925									
					τo	1100		1571	35	01	27	762		000624	7 1	248	14	921									
					TD	1200		520	35			167		000576	9 1	308	14	917									
				S	τo	1300	(1469	34	98	27	172		000529	3 1	363		912									
		12	3	08	S	T1358	(14 39	34	974	27	775					14	910									
		12	3											000529	, I	303				•							

ID. CODE	mu	DE L	NGITUDE TO	MAR		STATIO	N TIN		YEAR	CRUISE	ORIGIN.	ATOR'S		GEPTH TO	MAX. DEPTH	01	WAVE SERVATIONS	TH.		CLOUG		- 5	NOOC TATION
CODE .		1/10	1/10	10*	110	MO DA				NO.	,	UMBER		MOTTOM	S'MPL'S	DIL	NGT PER 3		ns L	TYPE AM	d	N N	UMBER
84 OH 43	37		4040 H	149	-	12 0			967	013	004			4572	16	14	4 2		_	6 8	_		0004
104 04 143	,,,		1010 H	1477	WA	_	_	NO I		╄	AIR TEA		\vdash	_	1 -		1. 1-1	- 1	- 1	- 1-	1	- 1	
					COLOR	1		SPEED	METE	· —	ONY	WET	COD	NO. 095.	ORSERV								
					CODE	lan I	O'R.	FORCE	(mbs		ULB	BULB	1	DEPTHS	0.20								
							14	\$18	04	1	80	170	6	14									
MESSENGE				T		Τ,				rescuen	c voru	1	A 0	1,0	JNO		. PO4-P	TGTAL		NO3-N	HO3-H	5104-51	
	io.	TYPE	OFFTH (m)	1	℃	2 .	4.	SIGM	I-A		ALF-11	;;* c	YN. M T 10 ³	VELO	CITY	03 41/	pg = e1/1	00-0		ug = et/1	μ <u>μ</u> - σ1/1	yg = 47/1	- 211
HR 3/10	-1		2000	+-,		36.7	0	242	7	201	74.0	_		1.61	20		+	+	+			-	
, , , ,		STD	0000		645 645	357		262		001	760	9 9	000	151	129				-			ı	ŀ
128		D85 STD	0000		645	357		262		001	762	2 0	018	151									
		STD	0010		644	357		262			763		035	151									
128		D85	0023		044	357		262		001		. 0	ررن		132								
140		\$10	0023		644	357		262		001	766	7 ^	053										
128		085	0044		644	357		262		501			رري		135								
120		SID	0050		644	357		262		001	773	2 0	088		136								
128		085	0070		644	357		262		001					140								
120		510	0075		646	358		252		301	773	• 0	133	15									
128		085	0093		648	358		263							146								
		SID	01 00		644	359		263		001	689	7 0	176										
		STO	01 25		620	360		265			527		216		145								
128		0.85	T0145		589	361		266							139								
• • • •		STD	0150		577	361		260		001	426	5 0	253		136								
128		085	0177		516	360		267							120								
		SID	0200	1	479	359	6	267	18	001	340	5 0	322	15	112								
		STD	0250	1	415	358	7	268		001	287	5 0	388	150	098								
128		OBS	0272	1	393	358	43	268	97					150	095								
		STD	0300	1	379	358	3	268	39	001	257	3 0	452	150	094								
128		085	10370	1	348	357	99	269	93					150	395								
		STD	0400	1	344	357	9	269	9 3	001	242	8 U	57 7	15	399								
128		DBS	0404	1	319	357	74	269	7						101								
		STD	0500	1	299	357		269		001	224	3 C	700		100								
123		280	0562		242	356		270							089								
		5 T D	0600		159	355		270			131		818		066								
		STD	0700		1964	352		272		000	1985	4 C	924		309								
128		OBS	0777		8 35	351		27:							972								
		STO			1803	351		2.73			855		016		964								
		STO	0900		1676	350		275		000	721	9 1	095		330								
128		085	10998		1573	350		276							905								
		STD			1572	350		276			618		162		905								
		SID			1542	350		276			1595		222		909								
		STD			512	349		276			571		281		914								
		SID			1481	349		27			1546		336		918								
		STD			451	349		27			1520		390		922								
1.20		510			421	349		27		000	14 95	> 1	441		926 928								
128		085	T1561	-	1402	349	03	27	18					14	760								

TABLE IV.—Continued

FERENCE			- #	MARSDEN	STATION T	ME	ORGIN.	ATOR'S	DEPTH	MAIL		WAVE	WEA-	Ctoub	T		W005
T 10. COOK	LATITUO		NGITUDE 50	SQUARE	(G MT)	TEAR	CRUISE S	TATION	10	DEPTH	O8	WAVE SERVATIONS	THER	COOES		S .	NODC TATION
		1/10	17.70	10" 1"	MO DAY H		NO. N	UMBER	BOTTOM	S'MPL'S	O III.	HGT PER SEA	COOL	TTPE AM	7		UMBER
11184 OW	43571	N 04	1042W	1 1		25 196	7 013 009	5	4572	46	20	4 2	60	6 6			0005
				WA	_	/INQ	RO- AIR TEA	AP C VIS	NO.	SPEC	14.1	1				,	
				COLDE	TRANS DIR	SPEED AND		WET COD	DEPTHS	DESERVA	TONS						
					21	S10 04		172 7	20								
				_		310	110	_	1,			L,					
MESSENGE TIME o	CAST NO.	CARD	OEPTH (m)	1 %	5 %.	SIGMA-T	SMCIFIC VOLUM	u.f. ₹ ∆ 0	SOL		0 2 ml/	1 104-1	0141-1	NO2-N	NO3-N	5104-51	
HR 1/10		1178					ANDMALTHEIR	x 103	AFFC	CITY	0 3	≥p = 01/1	49 - 41/1	μg = σ1/1	yg - 01/l	µg - 01/1	PH
		510	0000	1658	3579	2624	0017897	0000	151	32							1
125		085	0000	1658	35791	2624			151			1	,				
		STO	0010	1658	3579	2624	0017920										
125		510 085	0020 0025	1657	3579	2624	0017937	0036									
123		STO	0025	1657 1658	35792 3579	2624 2624	0017972	0054	151								
		STO	0050	1660	3580	2624	0018024		151 151								
125		085	0050	1660	35802	2624	0010024	0090	151								
		STO	0075	1659	3581	2625	0017996	0135									
125		085	0087	1658	35818	2626		- • • •	151								
		STD	0100	1663	3587	2629	0017738	0179									
125		085	0100	1603	35873	2629			151	51							
125		510	0125	1657	3607	2645	0016261	0222	151								
125		085	0149	1652	36156	2653			151								
125		STD	0150	1649	3615	2653	0015572	0262									
125		280 STO	0198 0200	1524	36028	2673	0013043		151								
		510	0250	1521 1449	3602 3551	26 7 3 2680	0013862		151								
		STO	0300	1395	3584	2686	0012827		151 151								
125		280	0302	1393	35838	2687	0012 02 7	0409	150								
125		085	T0392	1343	35794	2694			150								
		STO	0400	1343	3579	2694	0012408	0595	150								
125		280	0491	1305	35752	2698			151								
		STO	05 00	1297	3574	2699	0012130	0717	150								
125		280	T 05 82	1206	35580	2705			150								
		510	0600	1171	3553	2707	0011458	0835	150	70							
		STD	0700	0987	3529	2722	0010105	0943	150								
125		385	0790	0840	35143	2734			149								
		STO	0800	0824	3514	2737	0008674		149								
126		STO SBC	0900	0681	3508	2753	0007073	1116	149								
125	,	210	T0996 1000	0570 0568	35034 3503	2764	0005050	1101	149								
		STO	1100	0520	3501	2764 2768	0005958		149								
		STO	1200	0477	3499	2772	0005368		149								
		STO	1300	0441	3497	2774	0005019		149								
		STO	1400	0410	3496	2777	0004781		149								
125	(oes	T1455	0396	34954	2778	2001101	1373	149								
		STO	1500	0394	3495	2777	0004734	1441	149								
		STO	1750	0382	3495	2779	0004791		149								
		STO	2000	0370	3495	2780	0004832		149								
126	(280	T2129	0364	34947	2780			150								
	_	STD	2500	0346	3495	2782	0004887	1923	150								
126	(385	T2665	0336	34949	2783			150								
134		STD	3000	0311	3495	2785	0004717	2163	151								
126) 8 \$) 8 \$	3202	0294	34944	2787			151								
126	·	STD	3745 4000	0244	34927	2790	000/313	2.15	152								
126		310	T4286	0240 0237	3492 34912	2790	0004313	2615	152								
126		185	4621	0237	34912	2789 2790			153								
120		103	4021	0233	24412	2140			153	55							

ID. CODE	TITUDE LO	NGITUDE ES	MARSDEN	STATION THE	YEAR	ORIGINA		DEFTH	MAX. DEPTH	085	WAVE ERVATIONS	WEA-	CLOUD		,	NODC
NO. CODE	1/10	1/10		MO DAY HE			TION	BOTTOM	S'MPL'S	DIR	HGT PER SEA		TTPE AM	1	, i	UMBER
		105 W				013 006		4572	14	31	4 3	+	6 6	+		0006
11104 04 144	05 14 01	103 4	WAT		INO	AIR TEM		Т- Т	14	L	12 12 1		0 10	I	1	0000
				1	IPIED MET	0.	VIS.	NO. OBS.	SPEC	IAL						
			CODE	MANE DIR	FORCE Imb		SULS COO	DEPTHS	OBSERV.	ATIONS						
				31	\$10 15	122	111 7	14		_						
		1					1 7 0 0	' 			1	_				1
MISSINGE CA	ST CARD O. TYPE	DEPTH (m)	1 %	\$ %.	SIGMA+T	ANDMALT-EIST	1	. SOU		02 ml/l	PO4=P 19 1 11/1	101AL=# #8 - #1/1	NO2=N ug • et/l	NO3-N	51 04-51	ЬH
HB 1/10		-	-				$\overline{}$	\rightarrow			7	34 - 17	16.40)	µg + 0₹/1	98 • 01/I	↓
	STO	0000	1749	3590	2611	0019150	0000				1 1				1	1
123	085	0000	1749	35903	2611	001000	0.01.0	151								
	STO	0010	1749	3590	2610	001 92 06	0019									
122	STO	0020	1749	3590	2610	0019239	0038	151								
123	08S STO	0025	1749	3589 7 3590	2610	0010113	0058	151								
123	280	0030 0047	1741 1715	3590 35891	2612 2618	0019117	0058	151 151								
123	510	0050	1710	3587	2618	0018661	0095									
123	085	0070	1680	35806	2620	0013001	0093	151								
123	STO	0075	1674	3581	2621	0018370	0142									
123	085	0093	1657	35820	2626	0018370	0142	151								
143	STO	0100	1655	3591	2634	0017289	0186									
	STO	0125	1642	3613	2654	0015479	0227									
123	085	T0140	1631	36187	2661	0015117	OLLI	151								
	STD	0150	1609	3614	2662	0014752	0265									
123	085	0185		36018												
	STO	0200	1514	3598	2671	0014004	0337	151	123							
	STO	0250	1440	3588	2680	0013320	0405	151	107							
123	085	0276	1410	35840	2683			151	101							
	SID	0300	1392	3583	2686	0012838	0471	150	99							
123	085	0366	1351	35792	2692			150								
	STO	0400	1345	3579	2693	0012456	0597									
123	085	0455	1317	35757	2696			150								
	STO	0500	1277	3568	2698	0012170	0720									
123	085	10538	1235	35617	2702			150								
	STO	0600	1129	3545	2709	0011265	0837									
	STO	0700	0961	3525	2723	0009948	0943	150								
123	08\$	0744	0887	35175	2730			149								
	STO	0000	0783	3512	2741	0008171	1034									
	200	0900	0626	3503	2756	0006640	1108									
123	085	10913	0608	35025	2758	0006107	1177	149								
	STO	1000 1100	0576	3501 3500	2762 2765	0006187	1172									
	STO	1200	0539 0503	3499	2768	0005891	1233									
	510	1300	0466	3498	2772	0005599	1345	149								
	0.15	1400	0429	3496	2775	0005299	1343									
123	085	T1449	0411	34958	2776	5005002	1340	149								
143	003	1444	0411	J4720	2110			1.43	12							

FERENCE SHIP		e 5	MARSDEN	STATION			01	GINAT	2.85	DEPTH	MAX.		WAVE		WEA-	CLOUD			NODC
TO TO CODE LATITU		NGITUDE BY	SOUARE	IGMT	- 1	YEAR	CRUISE	STA		BOTTON	. OF		ERVATIO		CODE	CODES	.1	- 5	TATION
	1/10	1710	10" 1"		HR.1/10		NO.	NUA	ABER	-	13 mrt		HGT FLI	SEA	+	ITFE AM	1		
1118- OH 4355	N 04	053 W	1		126 1	967	013	007		4572	10	30	3		63	5 8			000
			WA	•	WIND	BARC		TEMP		NO.	SPE	IAL							
			COLOR	TRANS OIR	POICE	M ETE (mba			VET CO	OEPTHS	OBSERV	ATIONS							
			-	30		07	11	-	11 6	13	 								
				1	1	1	1		_	-			_	_	-				_
MESSENGE CAST TIME BS NO. HE 1/10	TYPE	DEPTN (M)	1 15	\$ */	SIGM	A-1	ANOMA	7-E107	¥ ∆ DYN. x 10	y. so	DCITY	02 ml/l	104		OTA L-P #8 - 81/1	NO2-N	NO3=N HB - B1/1	\$1 0 4=\$1 #8 + @1/	
	STD	0000	1596	3583	261		0018	446	0000		144		1						Τ
126	085	0000	1696	35833							144		'	,					
	STO	0010	1698	3584	261		0018		001		147								
	STD	0020	1699	3584	261		0018	507	0 0 3		149								
126	085	0023	1700	35846							150								
	\$10	0030	1700	3585	261		0018		005		151								
126	0 T S	0050 0057	1701 1701	3585 35645	261		0018	624	009.		154								
120	510	0075	1701	3586			0013	441	013		155								
126	085	0086	1702	35861	261 261		0018	001	013		159 161								
120	510	01 00	1702	3614	264		0016	742	018		167								
126	085	0113	1707	36315			0010	142	010.		172								
	STO	0125	1685	3628	265		0015	361	022		167								
	STD	0150	1643	3622	266		0014		026		158								
126	085	T0172	1608	36175				_			150								
	STO	0200	1576	3613	266		0014	256	033		144								
126	0.85	0227	1534	36064	267	3				15	135								
	STO	0250	1472	3597	268	0	0013	335	040		118								
126	085	0294	1380	35825	268	88				15	094								
	510	0300	1379	3582	268		0012		046		094								
	STO	0400	1346	3579	269		0012	462	059		099								
126	0.62	10436	1324	35 78 0							098								
	\$10	0500	1281	3570	469		0012	104	071		093								
120	085	0533	1236	35¢24							082								
1.77	012	0600	1077	3538	271		0010	823	0.83		035								
126	08 S STO	0628	1016	35292 3517			0.000	004	0.03		017								
	STO	0700 0800	0869	3505	273		0008		093		973								
126	085	0824	0677	35028			0007	3 4 U	101		926 9 1 8								
120	SID	0700	0599	3502	279		0006	145	108		899								
	510	1000	0541	3502	276		0005		114		892								
126	085	T1017	0536	34997			0000	000	117		893								

Table IV.—Continued

ENENCE SHIP	LATITU	IDE LO	NGITUDE E	E MAR	SDEN ARE	STATION T		YEAR	CRUISE	RIGIN AT	TION	J	DEPTH TO	DEPTH	01	W A	VE A TIONS	WEA-	CODES		57	ATION
ID. CODE		1/13	1/10	10*	T 7+	MO DAY H	18,1/10		NO.	NU	WBER	- 1	MOTTOM	S'MPL	S DIR.	HG	PER SE	CODE	TYPI AM	ৰ্ব	N	J M 8 E R
11184 DH	4402		+057 W	149	40	12 12	132 1	967	013	009		4	572	10	24	6	2	89	5 B			0008
,	'	,	'		WAS	EP V	WIN D	BARC	- A	IR TEMP.	4	vis.	NO.		CIAL	7						
					COLUR	TRANS DIR.	SPEED OIL POICE	M ETE	R D		VET C		OBS. DEPTHS	OBSER	ATIONS							
					-	25	517	00	08	9 0	78 7	7	12			1						
Materia						1	 	+-	ARTORIC	VOLUME	₹ ∆ QYN	70	SOL	IND.			104-P	TOTAL-P	NO2-N	NO3-N	SI O4-SI	
TIMB HB 1/1	CAST NO.	TYPE	OEPTH UM!	' '	ζ.	s ·4.	SIGN		ANOMA	114-1107	x 1	103	VELC	CITY	O2 m1/		g - e1/l	pg - 81/I		ya - e1/1		ρН
		210	0000		689	3584	262		0016	3273	000	00	151									
13	2'	085	0000		689	35835	262						151									
		STD	0010		690	3583	262		0018		001		151									
		510	0020		691	3583	261		0018	3396	003	5 [151									
13	2	OBS	0027		692	35833	261		2010		009		151									
		STO	0030		692	3583 3584	201		0016		009		151									
	_	STD	0050		692	35835	261 261		0016	5500	00	76	151									
13	2	085	0053 0075		692 696	3590	262		0018	207	013	a B	151									
	2	210	0075		699	35931	262		0010	, 201	01.	,,,	151									
13	2	210	0100		726	3617	26		0017	7016	018	82	151									
13	2	085	0107		728	36227	264		001	. 010			151									
13	2	SID	0125		689	3622	264		0015	5887	022	2 3	151									
		STD	0150		641	3620	265		0015		020		151	157								
13	2	085	T0160		624	36182	266						151	153								
• • •	-	STO	0200		569	3610	266	58	0014	321	03	35	15	142								
13	2	DBS	0211		554	36076	26	70						139								
	-	STO	0250	1	500	3599	26	75	0013	3784	04	05	15	127								
		\$10	0300	1	433	3588	26	81	0013	3321	04			113								
		STO	0400	1	310	3570	26	93	0012	2410	06	02		086								
13	2	085	0416		292	35668	26							083								
		510	0500		207	3555	27		001	175B	07.	23		066								
13	2	085	0513		188	35520								061								
		SID	0600		019	3528	27		001	0522	08	34		013								
1.3	2	OBS	T0608		004	35262	27							009								
		SID	0700		808	3514	27			B240	09			949								
		510	0B 00		1651	3504	27		000	6780	10	03		904								
13	12	085	0806		1643	35036								901								
		\$10			550	349B	27		000	5 952	10	67		879								
13	12	085	T0992	0	15 O B	34954	27	65					14	877								

ETENCE			T		- =	MARS			ON TIM				ORIGIN	ATOR'S		DEPTH	MAX		₩	A VE	WEA-	CLOUD			HODG	
10.	CODE	LATITU		LONG	SITUDE BY	sou			SMT)		EAR	CRUI	SE S	TATION		10 40110	. OF	1 '		VATIONS	THER	CODES			UMBER	
NO.			1/10	0/0	1/10	10*			4 1		967		_		_	663	S'MPL	5 DE		3	*	5 5	-	-	0009	1
11184	OM	4403	N	040	158 W	149					106	101				.00.3	17	1 0	_ r	12		1 - 1 -	i	1	, 00 ,	
							WAT	_		N D SPEED	BAR		AIR TE		VIL	NO. OBS.	SPI	CIAL								
							COLOR	IMI I	DOL.	10101	(mba		DBY	BULE	CODE	DEFTHS	ORSER	VA TIQ?	4.5							
										505	01	\neg	100	094	6	14	1		\neg							
1			_				1 1		_		_			$\overline{}$		T		_	+			1				Τ.
	MISSINGE TIME	CASI NO.	CAR		DEPTH (m)	1	₹	5	٠/	SIGM	4-T		PIC VOLU	M.E	ξΔD.		OCITY	03 0	1/1	PO4=P up = e1/1	tOTAL-P	NO2-N	NO3~N ug - at/l	ا/اه - وبر	pН	ć
	N# 1/10	1		\rightarrow		ļ .									x 10 ³	+			-		34 - 0	7.	39 - 001			4
			\$1		0000		670	357		261		00	1842	3 C	000		136			1					ı	
	124	•	085		0000		670	357		261		0.0	1.04.2	n /	018		136 ' 137									
			\$1		0010		670	357		261 261			1842		1037		139									
			S1 085		0020 0025		669	357		261		00	1044	, (1051		139									
	124	•	51		0030		670	357		261		0.0	184B	2 (055		141									
			\$1		0050		672	357		261			1857		1092		145									
	124		083		0050		672	357		261		• •					145									
		•	\$1		0075		671	357		261		0.0	1863	5 (139		14B									
	124		085		0076		671	35 7		261						15	148									
			51		0100	1	674	357	7	261	В	00	1874	2 (186	15	153									
	124		085	5	0100	1	674	357	69	261	8					15	153									
			S1	ro	0125	1	668	360		264			1665		0230		159									
			S1		0150		663	361		265		00	1559	1 (270		163									
	124	4	083		T0153		662	362		265				_			164									
			S 1		0200		580	361		266		00	1455	5 (1346		145									
	124	•	OB:		0200		5 BO	361		266				,			145									
			51		0250		486 417	359		267		UU	1377	,	0416		107									
	124	•	OB:	נו מו	0298 0300		417	356		268		0.0	1325	a 1	0484		107									
	124	r.	08		T0391		342		763	269		00	1323	,	707		096									
	12.	•		, [D	0400		328	35		269		0.0	1247	В	0613		093									
	124	4	08		0489		183	354		270							055									
				ĪΟ	0500		162	354		270	4	0.0	1149	1 (732	15	050									
	12	4	08	\$	T 05 B 3	1	008	352	27B	271	7					15	006									
			\$	T D	0600	0	1970	352	24	272	1	0.0	0996	7 (840		995									
				T D	0700		1776	350		273		0.0	00818	3	931		936									
	12	4	OB:		0767		1675		005	274							907									
				ΤO	0800		1641	349		275			0700		1006		899									
				ΤO	0900		1552	349		276		0.0	00612	5	1072		879									
	12	4	0.8		10954		1512		949	276			NE	2	1121		872									
				10	1000		502	349		276)0566)0549		1131 1187		876									
				10 10	1100 1200		461 460	349		271			0532		1241		892									
				10	1300		14 39	349		277			0515		1293		900									
				10	1400		418	34		277			00497		1344		908									
	12	4	08		T1449		408		949	277		-		_			912									
			30	-			50	,			-					-										

IO.	SHIP CODE	LATITU	DE	LONGITU	IOE	MOCT.	MARS		STATIO (G)	N TIM		EAR	CRUISE	\$1	ATOR'S	\dashv	DEPTH	MAX. DEFTH OF	01	WAVE SERVATION	45	WEA- THER	CDOES		S	NOOC TATION
10.	CODE	٠	1/10	•	1/10	- 1	10"	1.	MO OA	Y HR.	1/10		NO.	N	UMBER		BOTTOM	S'MPL"	DIR	HGT PER	SEA	COOE	TIPE AM	1		UMBER
84	OW	4358	5N	04401	LOW		149	34	12 15	1.3	3 1	967	013	010)	ŀ	4892	17	20	3 2			6 5			0010
								WA	TER	we		BARO		IR TEN	47 °C	VIS.	NO.	500	CIAL							
								OLOR	TRANS () (B .)	SPEED	METE	0	RY	WET	CODE	DEPTHS	DISERV	ATIONS							
							-	1000	(m)		23	9.86		1.0	097	7	14									
-									ĻĽ	- 7		700	, , , ,			٠.	1	L,		!						
l,	HESSINGE TIME 0	CAST NO.	CARD		EPTN 6	n I	,	7	5 ./		5IG M	_T	SMCIFIC	volu	yr 8	Δ 0 m. m	500	DNF	0 2 ml/	PO4-1		TA L-P	NO3-N	NO3-N	\$104-\$1	
Ŀ	HR 1/19	1 40.	1486						1						<u> </u>	1 103	****	DCITY		₩E - 01	" "	0 + 61/7	⊌g - 01/1	₩g + 01/1	19 · 01/	-
			ST		0000			77	3580		262		0018	1228	3 0	000	15					l				1
	133	. ,	088		0000			77	35 80		262						151									
			ST		0010			78	3580		262		0018			018	15									
			ST		0020			78	3580		262		0018	3323	5 0	037	15									
	133		085		0029			79	3580		262		001		_	05.5	151									
			ST		0030			79	3580		262		0018			055	15									
			51		050			81	35 80		262		0018	34 (1	. 0	092	15									
	133		08S		00 5 7 00 7 9			81	3580		261		0018			138	151									
	133		085		0085			80	3580		262		OOL	3330	, ,	1 20		153								
	133		ST		100			94	3590		262		0018	2244		184	15									
	133		085		0113			00	3591		262		0010	26 77	, ,	104	151									
	100		51		0125			00	3608		263		001	7156	. 0	228										
			ŠŤ		150			85	3621		265		0015			270										
	133		085		171			57	3623		265		00.	,,,,,	. •			166								
	•		S T		200			79	3610		266		0014	540	0	346										
	133		085		0223			24	3600		267						15	130								
			Ş T	0 0	250)	14	72	3592	2	267	6	0013	3699	0	416	15	117								
			ST	D 0	300	1	13	89	3579)	268	4	0013	068	3 0	483	150	097								
	133		085	0	332		13	146	3573	1	268	8					150	880								
			5 T	0 0	0400	1	13	102	3570)	269	5	0012	251	. 0	610	150	084								
	133		085)443			256	3563		269						150									
			ST		9500			69	3550		270		0011	404	• 0	728	150									
	133		085)549			83	3537		271						150									
			51		000			861	3524		272		0000	9933	0	635	144									
	133		085		0658			53	3511		273				_		14									
			ST		700			81	3507		273		0000			926	14									
			51		0080			39	3499		275		0000	916	1	003		898								
	133		085		0882			54	3494		275		000	100		0,0		877								
			ST		900			45	3495		276		0006			068	14									
	1.2.2		51 085		1000 1090			02	3496		276		0005	0011	1	127	14	877								
	133							68	3497		277		0009	121		180	14									
			ST.		1100			34	3497		277		0004			230	14									
			ST		1300			10	3496		277		0004			278	141									
			51		400			193	3495		277		0004			324	144									
			ST		500			182	3495		277		0004			370	144									
	133		085		671			179	3493		277		000			,,,	14									

Table V.—Observed and interpolated oceanographic data for stations taken by USCGC ABSECON at Ocean Station DELTA, 13 January–30 January 1968, prepared from NODC listing No. 31–1202 AZ.

008 NO.	CODE	LATITE	- 1	*GITUDE 83		STATION TI	TEAR		TION	DEPIN TO BOTTOM	MAI. DEPTH OF	1	WAVE ERVATIONS	COOL	CODES			NODC STATION NUMBER
	1 4 7	/ 35/	1/10	0495H		01 13 1	34 1968		M-BEK	4522	19		2		ITPI AM			000
11202	2 AZ	4354	0N 04	0495#	1 1 1	1				4522	1 7	31		X 2	4 6			000
					WAI	EN W	IND			NO.	SPE	CIAL						
					COLOR	TEANS DIR	SPIED METI		WET COC	DEPTHS	DUSERV	ATIONS						
					4000	33	\$15 O5		139 7	14								
						لتتلب	317	7 004 1	, , , ,	1.7								
	MESSENG		CARD	DEPTH INT	1 %	s */	SIGMA-T	SPECIFIC VOLUME	₹ A D	sou		D 2 m L/1	PO P	TOTAL-P	NO2-N	NO3-N	SIQ	ري
	HR 3/1		TYPE	DEFIN WIT	1 ' "	, ,,,	310	ANOMALT-1157	8 103	VELO	CITY	D3 WD1	μg = 81/3	up = q1/1	ug = at/1	μg = α1/š	μg = 01	
	17.2 17.1	-	510	0000	1506	3587	2664	0014058	0000	150	86				1			
	1 13	4	085	0000	1506	35865	2664		1	150			1					1
			STD	0010	1506	3586	2664	0014132	0014									
			510	0020	1507	3586	2664	0014169	0 0 2 8	150	90							
			STD	0030	1507	3586	2664	0014206	0042	150	92							
	13	4	D85	0032	1507	35858	2664			150	92							
			510	0050	1506	3586	2663	0014286	0071	150	95							
	13	4	085	0063	1506	35854	2663			150								
			STD	0075	1506	3585	2663	0014398	0107	150	99							
	13	4	085	0094	1505	35847	2663			151	01							
			5 T O	0100	1504	3585	2663	0014462	0143									
			5 T O	0125	1502	3585	2664	0014497	0179									
	13	4	D8\$	0126	1502	35846	2664			151	06							
			STO	0150	1501	3586	2665	0014448	0215									
	13	4	DBS	0189	1470	35883	2674			151								
			510	02 00	1444	3584	2676	0013547	0285									
			510	0250	1349	3568	2684	0012920	0351	150								
	13	4	085	TO253	1344	35677	2684			150								
			STO	0300	1331	3566	2686	0012860	0416									
	13	4	085	0379	1262	35625	2697			150								
			STD	0400	1219	3555	2700	0011732	0539									
			STD	0500	1037	3527	2712	0010690	0651									
	13	4	085	T0504	1030	35265	2713			150								
			510	0600	0898	3515	2726	0009422	0751									
	13	4	085	0631	0847	35112	2 7 3 1	0007573	0026	149								
			510	0700	0701	3501	2745	0007572	0836									
	13	4	085	10751	0616	34955	2 752	0000445	0007	148								
			5 T D 5 T D	0800 0900	0585	3496 3497	2756	0006445	0907									
			510	1000	0530 0489	3497	2 7 64 2 7 69	0005333	1023									
	13		085	1008	0486	34974	2769	0003333	1023	148								
	13	•	510	1100	0468	3498	2772	0005094	1075									
			STO	1200	0451	3498	2774	0003034	1125									
	13	4	085	1259	0441	34985	2775	0004710	1123	148								
	13	•	510	1300	0435	3498	2776	0004845	1175									
			510	1400	0421	3498	2777	0004786	1223									
			510	1500	0409	3498	2778	0004750	1270									
			510	1750	0366	3457	2779	0004736	1389									
	13	4	085	T1885	0379	34960	2780		1207	149								

	ID.	SHIP	LATTI		- 1	ONGIT		M DC S	SOI	ISDEN		IDN TIA		YEAR	CÈU	3.8	STA	fion		DEPTH TO DTTOM	DEPTH DE	OS	WAVE TAVAB	1025	THEA	CODES	1		NODC STATION NUMBER
_	NĎ.			1/			1/10	اتسا	10.	1.		DAY HE			NO			WBER	-	_	SMPL		HGT P			TYPE AM	T	-	
11	202	AZ	4313	Ŋ	10	412	8 ₩		149	31	01	25 1	47 1	96	01	4 0	02		4	572	11	12	5 2		X 2	8 7		- 1	0002
								' '		WA	TER	w	ND.	T.,	to- L	AIR	TEMP		1	ND.		CIAL	ľ .	•				,	
										COLDE	TRANS	DR.	SPEED OR	M.E	TER	DIN		₩ET C	ODE,	OBS.		ATIONS							
										CODE	Me f	1	PORCE	(m		BULS	- 1	UL#											
												13	519	2:	34	157	1	38		14	}								
	ſ	MISSENGE	LCAST	Τ,	ARD	T					1			_	1000	INC VO		1 2 4	0	100	UND		-			NO 11	W. 2. 11		.
	ŀ	TOME	T NO		TYPE	٥	EPTH 4	m I		2, 1	s	•4.	SIGA	T- A A	ANG	MALT.	-110	DYN	, M		DCITY	O 2 ml/	10.	e1/1	10141-9	NO2-N #6 • 01/1	NO3-N PR - 01/1	21 D4-0	
	-	HR 1/10	-	-	CTD	+	0000		-	£ 2.	12.	0.	2			1 2 2		-		200	200		+-	\rightarrow		-	74	1.0	+
			.1		5 T D 8 S		0000			536	36		26		00	132	48	000	,0	150				- 1				İ	
		147			85 S T D		00 0 0			536	36	063			.3.0	132	77	001	-		100								
					STO		00 20			536	36		26			132		002	-		102								
		147	,		85 85		0020			5 36		066	26		00	132	87	002			102								
		141			5 T D								26		0.0		7.0	0.04	^	151									
		147	,		82 81 D		00 30 00 40			537	36	05 4	26		00	133	13	004	• •	151									
		141			5 T D		0050			537	36		26		0.0	134	0.5	O Qé	7		107								
		147	,		85		006			536		057	26		00	134	02	0.00	, ,		109								
		14,			STD		0075			536	36		26		0.0	134	04	010			110								
		147	,		3 I D		0085			535		062	26		00	134	77	010	,,,	15									
		141			5 T D		0100			535	36		26		0.0	135	4.5	013	1 /.	15									
					510		0125			536	36		26			135		016			119								
		147	,		85		012			536		069	26		00	133	74	OLO	00		119								
		141			5 T D		0150			541	36		26		0.0	137	0.1	020		15									
		147	,		85		017			544		082	26		00	131	01	021	,,		129								
		14,			STD		0200			542	36		26		0.0	138	38	027	. 1	15									
					STD		0250			538	36		26			140		034		15									
		147	,		85		0254			538		067	26		00	140	-1	0,1-	. 1	151									
		171			STD		0300			411	35		268		0.0	133	74	041	n	151									
		147	,		ēs.		0331			352		707	261		00	133	′ -	041			189								
					STD		0400			311	35		26		0.0	125	0.3	053	Q	15									
		147	7		85		0412			298		672	26				• •	0).			384								
		147			85		0494			158		457	270							150									
					STD		0500			148	35		270		0.0	114	50	065	9)44								
					ŝτο		0600			957	35		27			099		076		149									
		147	7		85		0632			889		154	272				-	- 11			969								
		- ' '			5τo		0700			1725	35		274		0.0	075	5 9	085	4	149									
		147	7		85		072			1670		033	27								399								
					5 T O		0800			631	35		279		go	066	19	092	4		396								
					STO		0900			579	5 د		27			061		098		148									
					STD		1000			526	35		276			056		1 04		148									
					STD		1100			1473	34		27			05 0		110		148									
		147	7		85		1115			1465		986	27							148									

TABLE V.—Continued

REFERENCE		TONCHINE E	MARSDEN SQUARE	STATION TO	AE YEAR		ATOR'S	DEPTH	MAK		WAVE 2MORTAVE	WEA- THER	CLOUD			NODC IATION	1
CODE NO. CODE	LATITUDE 1/10	LONGITUDE BE	10" 1"	MO DAY HE			STATION NUMBER	IOTTOM	S'MPL		HGT PER SEA	CODE	TTFL AM	-	Ň	UMBER	
		04101 H	149 41		28 196			4389	43	12	3	X1	8 2	1		0003	
1 371202 42			WA		110	419.75	MP to	-	_	<u>, </u>	1 1 1	1		1	F		1
			COLOR		SPEED ME	TER DRY	WET CO	24 015.	598 083280	CIAL							
			COOE	URL) OIL	PORCE (m	be) BULD	BULR	DELINS	0171	- 110111							
				10	\$10 2	95 150	126 7	20									
MESSENGE			Т	1		SMCIFIC VOL	JAE S A	0 (0	UND		PO4-P	01AL-7	NO2-N	NO3-N	\$104-51		T.
I IIMII or	NO. TYPE	DEPTH (m)	1.5	5 %.	SIGMA-T	ANOMALT-E	DYN 3 10	M VEL	DCITY	03 mt/l		29 - 41/1	#g - 41/1	ug - st/l	ya - 01/1	øН	100
NR 1/10	ST	0 0000	1509	3595	2670	001348	_	_	860		+					-	+
128	085	0000	1509	35952	2670	001349	0 000		388			i			l		- 1
*20	ST		1508	3595	2671	001348	5 001										
	ST		1507	3596	2671	001348		7 15	091								
128	085	0024	1507	35957	2671			15	092								
	ST		1508	3596	2671	001352	8 004		093								
128	085	0049	1510	35952	2670				097								
	ST		1510	3595	2670	001366	1 006		097								
128	085	0073	1510	35956 3596	2670 2670	001370	9 010		101 101								
1.20	ST: 085	0075 0098	1510 1507	35960	2671	001370	9 010		104								
128	ST		1507	3596	2671	001369	3 013		104								
	ST		1505	3596	2672	001372			108								
128	085	01 47	1504	35955	2672				111								
•••	ST		1504	3596	2672	001381	9 020		111								
128	085	T0198	1504	35958	2672			15	119								
	ST	0 0200	1501	3595	2672	001394		4 15	119								
	ST		1439	3586	2679	001344	5 034		106								
128	OBS	0293	1390	35793	2684				096								
	5.7		1386	3579	2684	001300	7 040		096								
128	085 S T	10388 0 0400	1301 1283	35696 3567	2695 2696	001209	5 053		081 077								
128	085	0483	1138	35445	2707	001209	000		038								
120	ST		1096	3539	2710	001086	2 064		025								
128	085	T0576	0926	35173	2723	001000			974								
	ST		0875	3514	2729	000912	2 074		958								
	ST		0697	3504	2747	000729	3 083	1 14	905								
128	085	0763	0613	34995	2755				882								
	ST		0586	3499	2758	000623			877								
	ST		0522	3498	2765	000557	7 095		868								
128	280	0950	0495	34976	2768	000535	. 101		865								
	S T		0483 0461	3497 3497	2769 2772	000525			868 876								
	51		0442	3496	2773	000507			884								
	ST		0424	3496	2775	000486			894								
	ST		0409	3496	2777	000476			904								
128	085	11431	0405	34955	2777				908								
	ST		0399	3495	2777	000477	8 125	9 14	917								
	ST		0380	3495	2779	000478	5 137		951								
128	085	T1959	0366	34942	2780				980								
	51		0364	3494	2780	000480	0 149		987								
128	085	12458	0340	34949	2783	0006.35	6 170		055								
128	ST 08S	0 2500 2948	0337	3495 34940	2783 2786	000475	5 173		061 123								
128	51		0299	34940	2786	000457	6 197		131								
128	085	3442	0266	34937	2769	000471			194								
128	085		0240	34910	2789				274								
•••	5.1		0239	3491	2789	000436	6 241		280								
128	085	T4262	0233	34910	2789				324								

Table V.—Continued

EFERENCE SHIP	LATITU	,]	10:	IGITUDE	DELL	MARS		STA	10H T	IME	YEAR	F	_	10 t	_	-	H1930	MAX. DEPTH		w =32Ec	A VE	NS.	WEA-	CLOUD			HODC
IN ID. CODE	LATITU	- 1		* 1/16	88					(B. 1718	TEAR	CRU	O.	STATIC	FR FR	80	MOTTO	OF S'MPL'S			GT PLE		COOK	TIPE AM	1		UMRER
		1/10	044		++	10"				127	1968					1.	572	16	20		GI FR	35.6	X1	8 2		_	0004
311202 AZ	4404	N	040	058 W		147					1 300	9 01				17	312	10	20	<u>_</u> '	.		^1	0 12	ŀ		000-
						- 1	WA		-	SPEE	BAI			M9. 7		ıs	NO.	SPEC	CIAL								
							CDLOR	TRANS.	DIR	01	147.2		DRY	W E RUL	1 00	06	OBS. DEPTHS	V#3280	A TION	S							
						ł			18	510	•		147	10			14			-							
	_					-		Ļ	1	101		1		1		_				1		_		_	_		_
MESSENGE TIME 0	CAST	CAI		DEPTH (lm i	1	÷c	s	٠4.	SIC	MA-T	3760	OMALT-X	JME	₹Δ DYN.	М.	sou		02 m	1/1	PO4-		IOTA L-P		NO3-N	SI O4=S	рН
H# 1/10	NO.	111	'E									An	UMALY-X	18.	x 10	j	AFFC	CITY			h8 . a	1/1	µ₽ • 04/I	pg = 01/1	pg - a1/1	μφ - α Ι/Ι	
		51	r D	0000	0	1	522	361	01	26	72	0.0	1333	0	000	0	150	093		П		Т					
127		08:	5 '	0000	ס '	1	522	36	011	2.6	72	1					150			- 1				•			
		S.	D D	0010)		521	36			73		01328		001		150										
		S :		0020			520	36			73	00	01324	8	002	7	150										
127		08:		002			519		028		74			_			150										
			O	0030			520	36			74		01326		004		150										
			D	005			525	36			72	00	01344	4	006	1	151										
127		08		005			525		024		72	0.0			010	_	151										
			ם	007			524	36			72	00	01351	>	010	U	151										
127		D 8		0080			524		024		72	0.0	01354	2	013		151										
			D	01 00			523 522	36	027		73	00	JI 2 29	۷.	013	7	151										
127		08:	5 T D	010			522	36			73	0.0	01361	6	016	o.	151										
			70	015			522	36			73		01371		020		151										
127		DB:		016			522		021		73	01	31311	_	020	-	151										
127			[D	020			524	36			72	0.0	01390	12	027	1	151										
127		0.6		T021			524		022		72	•		_		•	151										
			ΤD	02.50			474	35			76	0.0	01366	9	034	0	151										
			τĎ	030			408	35	62		82	0.0	01324	0	040	7	151	104									
127		0.83		032		1	383	35	783	26	85						150	099									
		S.	O	040	0	1	315	35	71	26	93	0.0	01243	7	053	6	150	880									
127		De:	S	T042	7	1.	274	35	659	26	97						150	o78									
		S.	r D	05 0	0	1	100	35	39	2	10	00	01 0 9 3	5	065	3	150	027									
127		0.83	S	0534	4	1	026	35	291	2	715						150	005									
			T D	060			894	35			126	0.0	00943	0	075	4	149										
127		DB.		T 06 3			828		072		731						149										
			τo	070			751	35			42		00787		084		149										
			I D	080			645	35			757	0.0	00650)3	091	3	149										
127		DB:		084			603		064		162	_						893									
			D	090			569	35			764		00576		097		148										
			T D	100			511	35			769	00	00532	. 4	103	U	148										
127		D8		T105			486		994		771	0/	0061/	7	108	2	148	878 883									
			I D	110			477 459	34 34			771 773		00514 00507		113			892									
			T D	130			459 441	34			774		00500		118		149										
			T D	140			422	34			775		00500		123			910									
			T D	150			404	34			177		00485		128			919									
127		08		T159			387		943		778	01	00102		. 20	-		927									
121		00					501		. 13	-																	

COOR NO. C	SHIP .																													
COOR NO. C			1					MARS	DEN	STATI		ME			DNG	OTAP	R"S	I	DEPTH	MAX. DEPTH		WA		w	EA-	Cronp			NODC	
-	ODE	LATITU	- 1	LON	GITUD		2	sou			(TM		YEAR			STATI		Ι,	MOTTO	OF			TIOHS		ER DE	CODES		2	HOITAT	1
			1/10	0.0		/10	-	10"			AY HI		1040	+	\rightarrow		acr.	+		S'MPL'S	_		PER St		_	TYPE AM	-			-
1 211202	AZ	4407	N	040)5 1	w	- 13	149	_				1968	0	14 00				572	15	20	[3]		X	r l	3 5			0005	ŧ
									WAT	_	w	IND	BAR		AIR TE	_		.21	NO.	SPEC	IAL									
									COLOR	TRANS.	DIR	\$644D	1 000		DRY	SU SU	FT CO	No.	DEPTHS	OBSERVA	TONS									
									0000		20	513	16		150	11		-+	14			1								
_											20	313	10	1	150	1.	0 1		17			<u>L, </u>			_			,		_
MI	ESSENGA TIME O	CAST	CAR	io I	OFT	TH (m	۱ ،		τ	١,	٠/	SIG	WA-1		CIFIC VOL		Ž ∆ DYN.	D	sour		O 2 m1/		04-6	TOTAL		NO7-N	NO3-N	\$1 04~5	рН	
	1/10	NO.	117	1E	0,11		"		•	*		1,00		4.4	HOM ALY-X	10,	X 10	3	VELO	CITY	0 2 ·····	, he	- 61/1	40.0	1/1	µg = a1/1	pg - al/l	μg - αt/1	P	
	-		Si	D	00	000		1	518	360	1	126	72	01	01328	2	000	0	150	92										
1	132	'	003	s '	0.0	000	- 1	1	518	360	06	26	72	1		,			150	92		1	1	1					'	- 1
			S 1	ΙD	0.0	10		1	516	360	1	26	73	0	01328	4	001	3	150	93										
			51			20			515	360		26		0	01328	8	002	7	150											
	132		089			24			514	360		26							150											
			ST			30			515	360		26		0	01333	3	004	0	150											
	132		089			48			516	360		26						_	150											
			S1			50			516	360		26		0	01343	5	0.05	7	151											
	132		089			74			518	360		26					010	^	151											
			\$1			75			518	360		26		Ų	01352	4	010	U	151											
	132		089)98 L00			516 516	360		26 26		0	01354	0	013	,	151 151											
			S 1			125			516	360		26			01363		016		151											
	132		089			47			515	360		26		0	01303		010	0	151											
				מז		150			516	360		26		0	01374	7	020	2	151											
	132		DBS		T 01				518	359		26		•				_	151											
				Īρ		200			514	359		26		0	01393	1	027	2	151											
			5.7	C D	0.2	250		1	473	359	3	26	77	0	01364	7	034	1	151	18										
	132		083	S	0.2	283		1	442	358	78	26	79						151	13										
			S 1	T D	03	300		1	426	358	15	26	81	0	01339	4	040	8	151	10										
	132		083		T 03				320	35¢		26							150											
				ΤO		+00			300	356		26		0	01243	0	053	7	150											
	132		083			87			142	354		27				_		_	150											
				T D		500			109	354		27		0	01102	5	065	5	150											
	132		085			5 6 6			912	351		27		0	0000	-	0.75		149											
				T D T D		500 700			882 702	351		27 27			00923 00751		075		149											
	132		085			778			603	349		27		0	00151	. **	004	U	148											
	102			T D		300			592	349		27		0	00646	. 7	091	٥	148											
				TD		900			546	349		27			00582		097		148											
	132		08			978			514	350		27		,				•	148											
				TD		000			506	350		27		0	00535	1	1 02	7	148											
			S	T D	11	100		0	471	34	9	27	72		005 09		107	9	148	80										
			S	TD	12	200		0	443	349	7	27		0	00493	0	112	9	148	85										
				ΤD		300			420	349		27			00481		117		148											
				TD		400			403	349		27		0	00478	4	122	6	149											
	132		D8:	S	T 14	+82		0	394	349	136	27	76						147	11										

TABLE V.—Continued

BEFERENCE	SHIP					- 5	MAR	SDEN	STAT	ION T	ME		L	ORIGIN	ATOR	'5	1	DEPTH	MAX. DEPTH	۱.	WA	VE LTIONS		WEA-	Cronc		- 1	NOOL	1
CODE NO.	C001	LATITU	1	LONG		NO NO		ARE		GMI		YEAR	c		TATIO		l ac	OT MOTTO	OF				- 1	THER	COOE			STATION	ĺ
-	-		1/10		1/10		10"	1.	\rightarrow	OAY H			+	_	NUMB		↓_		S'MPL'S			PEB S	t a		TTPE AN	1	-		
311202	AZ	4341	N	0402	26 W		149	30	01	30	195	196	8 0	014 00	6		4	572	15	01	6	3		X 1	6 6		- 1	0006	1
								WA	TER	v	VINO		£0-	AIR TE	MP T	Vrs		NO.	SPEC	741	1								
								COLOR	TRANS	DIR.	SPETO	ME	TER	OBY	WE	T COC	n el	OBS.	DESERV										
								COOE	(m)		FORC	•	61	8018	\$UL		1	_			1								
										07	507	3	38	076	04	2 7	1	14											
[MESSENGE	CASI	CAR						Τ	·	Τ		Τ,	MCNIC VOLL		₹ △ 0	5	sou	NO.		٠,	04-1	100	TA (P	NO2-N	NO3-N	\$104-		5
	TIME	NO.	TYPE		OEPTH ((m)	'	~	3	٠/	SIG	MA-1	1	ANOMALI-S	0,	DYN. A		VELO		O3 mt/		- 01/1		- 11/1	ug - mt/l	μg - α1/1			c
1	HB 1/10	+	6.7	_	00.04	_	+-;	505	2.		-		+.	001202	_	0000	_	161	•		+		1	-			+	+	+
	195		51 DBS		0000			585 585	36	122	26	66	1,	001387	4	0000	,	151			ì		ļ	- 1		l	l		
	195	,	51		0010			584	36			66		001391	t	0014		151											
			ST		0020			583	36			66		001394		002 8		151											
	195		085		0025			583		114		66		001339	•	J 02 0	•	151											
	195	,	51		0030			584	36			66		001396	2	0042	,	151											
	195		085		0044			586		128		66	,	001340	ر	0072	-	151											
	193	•	51		0050			586	36		26			001401	2	0070	`	151											
			ST		0075			587	36			66		001411		0105		151											
	195	5	DBS		00 75			587		128		66			•	0.03		151											
	199		085		0099			584		125		67						151											
	1,,	•	5.7		0100			584	36			67		001415	0	0140	1	151											
			ST		0125			584	36			67		001423		0176		151											
			5 T		0150			584	36			67		001431		0211		151											
	199	i	DBS		0150			584		125		67			•		•	151											
	• / /		ST		0200			535	36		26		- 1	001406	2	0282	,	151											
	195	5	D85		10201			534		032	26				_			151											
	• • •		ST		0250			459	35			77		001357	1	0351	ı	151											
	195	5	DBS		0298			392		794		83			-			150											
	•		5 T		0300			391	35			83	- (001310	9	0418	9	150											
	195	5	DBS		0398			277		657		97						150	74										
			5.1		0400			272	35			97	-	001202	6	0544	÷	150											
	195	5	085		0498			067		318		10						150											
			5.7		0500			064	35		27			001083	0	0658	3	150											
	195	5	085		1059			930		193	27							149	79										
			ST		0600			928	35			24		000962	5	0760)	149	78										
			ST		0700			735	35			44		000763		0847	7	149	20										
	195	5	0.05		0796	6	0	605	35	000	27	57						148	84										
			SI	D	0800	0	0	603	35	00	27	57		000639	0	0917	7	148	84										
			ST	D	0900	0	0	550	35		27	65		000569	4	0977	7	148	79										
	195	5	DBS	. 1	10986	6	0	510	35	028	27	71						148	78										
			ST.	0	1000	0	0	504	3.5	03	27	71	- 1	000511	8	1031	l	148	77										
			5 T	0	1100	0	0	466	35	01	27	74		000484	7	1081	l	148	78										
			ST	D	1200	0	0	4 36	34	99		76	- (000467	8	1129	9	148	82										
			ST	0	1300	0	0	414	34	98	2.7	78	-	000460	7	1175	5	148	90										
			5 T		1400	0	0	399	34		27	78	- 1	000461	5	1221	l	149	00										
	195	ò	D85	1	11492	2	0	392	34	948	27	77						149	12										

Table VI.—Observed and interpolated oceanographic data for stations taken by USCGC CASCO at Ocean Station DELTA, 28 February–19 March 1968, prepared from NODC listing No. 31–1210 CS.

REFERENCE	ITUDE LC	NGITUDE 28	MARSDEN SQUARE	STATION TIME	YEAR	ORIGINATOR		DEPTN DEPT	H Daze	PVATIONS	WEA- THER	CLOUD		, N	NODC	
COOK ND. COOK	1/10	1/10 2	10° 1° A	10 DAY HR	/10	NO. NUM	864	527 15		2 3	X 1	8 4		_	0001	
311210 CS 440	01 N 04	+103 W	WATE	W IN	D IAN	O- AIR TEMP	c	NO.	ECIAL	- -	1	, ,		1		
			CDLDR	URI DIK.	ORCE (mb	BULB BU	LB CODE	DEPTHS DESER	VATIONS							
				33 5	11 20			14								T.
MESSENGE CAS	TYPE	DEPTH (m)	27.1	5 */	51G MA-1	ANGMALT-1107	≨ △ D DYN, M. X 103	VELDCITY	02 mL/1	PO4=P µg = 81/1	101AL=F pg = 41/1	NO2-N	NO3-N	νg - αl/l	рН	ç
	STD	0000	1501 1501		2660 2660	0014486	0000	15084 15084								П
1 30	085 STD	0000	1508	3593	2669	0013656	0014	15090								
130	5 T D 085	0020 0022	1513 1514	36030	2675 2675	0013136	0027	15094 15095								
130	STD 085	0030 0045	1514 1515		2675 2675	0013121	0041	15096 15099								
	510	0050	1515	3603	2675	0013220	0067	15099 15103								
1 30	085 STD	0070 0075	1515 1515	3603	2675 2675	0013283	0100	15104								
130	085 5 T D	0092 0100	1515 1515	36027 3603	2675 2675	0013379	0133	15106 15108								
	510	01 2 5	1516 1516	3603	2674 2674	0013474	0167	15112 15114								
1 30	085 STD	01 40 01 50	1516	3603	2674	0013569	0201	15116								
130	085 STD	T0188 0200	1517 1517	36026 3603	2674 2674	0013738	0269	15123 15125								
130	\$TD 085	0250 0280	1516 1516	3602 36021	2674 2674	0013893	0338	15133 15137								
	STD	0300	1509	3601	2675	0013986	0408	15138								
1 30	085 ST0	0385 0400	1478 1435	3589	2678 2682	0013581	0546	15142 15130								
1 30	085 STO	04 74 05 00	1249 1202	35599 3553	2698 2 7 01	0011809	0673	15077 15064								
130	085	T0575	1064	35344	2713	0010187	0783	15026								
	ST0 ST0	06 00 07 00	1004 0800	3529 3512	2719 2739	0010187	0875	15008								
1 30	085 ST0	0771 0800	0687 0658	35041 3504	2749 2753	0006880	0951	14913 14906								
	510	0900	0568	3503 35019	2764 2770	0005828	1014	14887 14877								
1 30	08\$ 5 T D	10975 1000	0513 0508	3502	2770	0005238	1069	14879								
	ST 0 ST 0	1100 1200	0486 0464	3500 3499	2772 2773	0005151 0005049	1121	14886 14894								
	STO	1300	0442	3498 3497	2775 2776	0004952 0004848	1222	14901 14909								
1 30	ST0 085	1400 T1492	0400	34958	2777	0004040		14916								
REFERENCE SHIP LAT	ITTUDE L	ONGUNDS 25	MARSDEN SQUARE	STATION TIM	E YEAR	ONGINATO	10.10	DEPTH DEPT	TH OBS	WAVE ERVATIONS	WEA- THE	CLDUD			NODC	
CTIT ID. CODE .	1/10	* '1/10 ° Z	SQUARE 10" 1"	IGMTI MO DAY HR	1/10 YEAR	CRUISE STAT	TON	DEPTH DEPT	TH OBS	HGT PIE SE	THE	TYPE AM		,	NODC STATION NUMBER	
CTIT ID. CODE .	1/10	ONGRUDE 1508 2 17/10 4103 W	10° 1° 149 31 WAT	1GMT MD DAY HR. 02 29 17	7 1968	CRUISE STAT	TON	170 DEPTH DEPT DISTRICT OF STAND	TH OBS	ERVATIONS	THE	CODES		,	NUMBER	
CTIT ID. CODE .	1/10		10° 1° 149 31	1GMT1 MD DAY HR 02 29 12 ER WI	1/10 27 1968 ND BAINERO OR UM	CRUISE STAT NUA B 015 002 RO- AR TEMP. TER DRY WALLS BY	TON VIS.	DEPTH DEPT DEPT DEPTH STAND. S. DESE	015 015 5 32	HGT PIE SE	THE	TYPE AM		,	NUMBER	
311210 CS 43	1/10 58 N O		10° 1° 149 31 WAT	1GMT1 MD DAY HR 02 29 12 ER WI	1/10 YEAR 1/10 2 7 1968 170 BA	CRUISE STAT NO. NUM 3 015 002 RO- AIR TEMP. TER DRY W. BULB 81 71 092 0	TO VIL.	DEPTH DEPTH TO DEPTH TO STAMP AT TO DESC. DESC. DESC. DESC.	TH OBS	HOT PIE SE	THEP CODE	TYPE AM			0002	הד
COD NO. CODE 43	1/10 58 N O		10° 1° 149 31 WAT	1GMT1 MD DAY HR 02 29 12 ER WI	1/10 27 1968 ND BAINERO OR UM	CRUISE STAT NUA B 015 002 RO- AR TEMP. TER DRY WALLS BY	TON VIS.	DEPTH DEPT DEPT DEPTH STAND. S. DESE	TH OBS	HGT PIE SE	THE	TYPE AM		,	0002	300
STIPLE CON CODE	1/10 58 N O	DEFIN (m)	SQUARE 10° 1° 149 31 WAI COLOR CODE	(GMT) MD DAY HR. 02 29 14 FER WI 18AN1 DIR. 5 */4, 3601	1710 27 1968 100 8A 1710 1710 1710 1710 1710 1710 1710 171	CRUISE NO. NUM B 015 002 O- AR TEMP. TER DET WASHINGTON BULLE BILLE BIL	TON VIET CODE JULE 62 7	DEPTH DEPT	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	3000
COD NO. CODE 43	1/10 58 N O	0000 0000 0010	10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	16MT) MO DAY HE 02 29 12 ER WI 16AN1 DIE. 3 *4. 3601 3601 3602	TEAR 1/10 27 1968 ND BA 19780 OF Imiliar 1/10 21 21 21 21 21 21 21 21 21 21 21 21 21	CRUISE NO. NUM	TON KREER 44 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	DEPTH DEPT	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	3000
ST Strip COO 1/10 58 N O	DEFIN Un) 0000 0000 0010 0020	SQUARE 10° 1° 149 31 COLOR CODE 7 T 1500 1500	16M1 MO DAY HE 02 29 12 18M1 DE 5 1/4.	TEAR 1/10 27 1968 ND BA 18780 OF Imiliar 1000 Imiliar 2007 2007 2677	CRUISE STAT NUM NO. 0.2 B 015 0.02 BIO- AS TEMP. THE DRY WAS TEMP.	TON KEER 2 VET CODE 10 62 7 \$△□ 07 07 10 10 10 10 10 10 10 10	DEPTH DEPT	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	2000	
STIPLE CON CODE	57 CAND O. TYPE STD OBS STO STO OBS STO STO STO OBS S	0000 0000 0010 0020 0025 0030	SQUARE 10' 1' 149 31 COLOR CODE 1500 1500 1505 1508 1509	GMT GMT	1/10 FAR 1/1	CRUISE STAT MONTH NUMBER OF THE DEPT WITH NUMBER OF THE DEPT WITH NUMBER OF THE NUMBER	TON (SEE) 1/2 VIL CODE 1/2 CODE 1	DEPTH DEPTH TO DEPTH TO DEPTH TO DEPTH STAFF TO DESCRIPTION TO DESCRIPTION DES	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	3000
ST Strip COO 558 N 0 51 CAND 51 TYPE 5TD 085 STD 085 STO 085 STO 085	0000 0000 0010 0020 0025 0030 0050	1500 IT TO TO TO TO TO TO TO TO TO TO TO TO TO	S 14. S 14. S 14. S 14. S 14. S 14. S 14. S 16. S 16	17/10 17/10	CRUIS STAT NO. 10	TON VIEW // (FET COOR JUL COOR	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	2000	
COO NO. SAIP LA	1/10 58 N O	0000 0000 0000 0010 0020 0025 0030 0050 0075	SOUAR 150 149 31	MO DAT (MAT) MO DAT (MAT) FE WILLIAM DR. 1 14M DR. 3 14. 3 601 3 601 3 603 3 603 3 603 3 603 3 603 3 603 3 603 3 603 3 603 3 603 3 603 3 603 3 603	1/10 TEAR 1/10 T	CRUIS STAT NO. 1012 N	TON (SEE) 4 VII. (FEE) (100 0 0 0 0 0 0 0 0	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	3 CC
Still CS 43 Still CS 43 Still CS 43 Still CS 1/10 558 N 0 0 0 0 0 0 0 0 0	0000 0000 0010 0020 0025 0030 0050 0075 0075	SOUARE 109 11 14 9 31 14 9 31 14 9 31 15 15 15 15 15 15 15	MO DAY HE WILLIAM DR. 1 14M1 DR.	1/10 TAR TAR TAR TAR TAR TAR TAR TAR TAR TAR	CRUIS STAT NO. 10	TON VIEW // (FET COOR JUL COOR	1170 1:170 0.055. DEEP 1170 1:170 0.055. DEEP 1170 0.055.	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	3000	
Still CS 43 Still CS 43 Still CS 43 Still CS S	1/10 58 N 0 58 N 0 510 510 0.0 1776 510 085 510 085 510 085 510 085 510 085 510 085	0000 0000 0000 0010 0025 0025 0050 0075 0075 0100 0100 0125	SOUAR 10° 11	GMT GMT GMT GMT GMT GMT GMT GMT GMT GMT	TEAR TEAR	Course State Course Course State Course Cou	TO WILL COOK OF THE COOK OF T	South Sout	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	200
COO 10, COO COO	1/10 CAND STD OBS 0000 0000 0010 0025 0030 0050 0050 0075 0100 0102 0150	SOLAR 10° 1	S S S S S S S S S S	1/16 27 1968 10 IA MEN IN	CRUIS STAT NO. 101 NO.	TO VIE (FET COOR) (FET COOR	NO. OF OF	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	ND3-N	S1 D4-S1	0002	3000	
Still CS 43 Still CS 43 Still CS 43 Still CS CS CS CS CS CS CS	1/10	0000 0000 0010 0025 0030 0055 0075 0075 0100 0125 0150 0150	SOUAR 19° 1 14° 31	S O O O O O O O O O	1/16 27 1968 1001 1001 1001 1001 1001 1001 1001 10	Course State Course Course State Course Cou	TO VIE (FEE COORDING TO THE PROPERTY OF THE PR	10 0 0 0 0 0 0 0 0 0	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	3000
COO 10, COO COO	1/16	0000 0000 0000 0010 0025 0025 0050 0075 0100 0100 0125 0150 0150 0150 0150 015	SOLAR 19" 1 19" 1 19" 1 19" 1 19" 1 19" 1 19" 1 19" 19	STATE STAT	1/16 27 1 1 968 1/16	Course State Course Course State Course State Course Cour	TO VIL 18 10 10 10 10 10 10 10 10 10 10 10 10 10	100 0 0 0 0 0 0 0 0	PECIAL EVATIONS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	3000
COO 10, COO COO	1/16	0000 0000 0000 0000 0000 0000 0000 0000 0000	SOLAR 10° 1	S S S S S S S S S S	1/16 27 1 1 968 40 1/16 27 1 1 968 40 1/16 27 1 1 968 40 1/16 27 1 2677 2677 2677 2677 2677 2677 2677 2677	Course STATE	T VALUE VALU	NO. OF OF OF	TH OBS	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	3000
Cop 10, Ship Cop Vib CAID ST CAID OBS ST OBS OBS ST OBS OBS ST OBS OBS ST OBS	0000 0000 0000 0000 0000 0000 0000 0000 0000	SOLAR 10° 1° 1° 1° 1° 1° 1°	MO NOTE TO THE PROPERTY OF THE	1/10 27 1 968 40 100 1 1968 100 1 1970 100 1	Cause State Cause Caus	TO NOTE TO THE PROPERTY OF THE	No. OFFI O	OSS ON THE CONTRACT OF THE CON	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	300	
Still CS 43 Still CS 43 Still CS 43 Still CS 43 Still CS Still C	1/16	0000 0010 0020 0025 0030 0050 0050 0050 0050 005	SOLAR SOLAR 19° 1 14° 31	S O O O O O O O O O	1/10	Course STATE	T VALUE VALU	15086 15096 15096 15096 15096 15096 15096 15096 15096 15106 1511	OSS ON THE CONTRACT OF THE CON	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	300
Still CS Cook CA	1/16	0000 0000 0000 0000 0000 0000 0000 0000 0000	SOLAR SOLAR 19° 1 14° 31	STATE STAT	1968 1968	Cause State Cause Caus	TO NOTE TO THE PROPERTY OF THE	No. No.	095 095 095 095 095 095 095 095 095 095	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	3000
Still CS 43 Still CS 43 Still CS 43 Still CS 43 Still CS Still C	1/10 CAID 1/10 CAID	0000 0000 0010 0025 0030 0050 0050 0050 0050 0150 0150 015	SOUAR 10° 1° 1° 1° 1° 1° 1° 1	S S S S S S S S S S	27 1 1 968 27 1 1 968 30	Cause State Cause Caus	100 100	No. Obstacle Obs	THE CONTROL OF THE CO	REVATIONS HIGH PIE SE 1 3	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	1000
Still CS Cook CA	1/16 1	DIMM	SOUAR 10° 1° 1° 1° 1° 1° 1° 1	STATE STAT	1/10	Columb STATE Columb Co	Title Control Contro	NO. OFFI OFFI	THE OBJECT OF TH	REVATIONS HIGH PIE SE	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	3000
Cope 10, Solid Cope	1/16	0000 0010 0025 0030 0050 0050 0050 0050 0050 00759 007	SOLAR SOLAR 19° 1 14° 31	Section Sect	1716 1908 1716	Columb STATE Columb Co	Title Control Contro	15086 1509	OSS OR CONTROL OF THE	REVATIONS HIGH PIE SE	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	3000
Cope 10, Solid Cope	1/16	0000 0000 0000 0000 0000 0000 0000 0000 0000	SOLAR SOLAR	Section Sect	1968 1968	Coling State Coling Co	Test Control	No. Or Or Or Or Or Or Or O	THE CONTROL OF THE CO	REVATIONS HIGH PIE SE	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	300
Section Color Co	1/10 1	OOD OOD	SOUAR 190 14 9 31 WA	SO SO SO SO SO SO SO So So	1/10 1968 1/10	Columb STATE Columb Co	Title Control Contro	SOUND STATE	THE OBJECT OF TH	REVATIONS HIGH PIE SE	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	300
Section Color Co	1/16		SOLAR SOLAR 19° 1 14° 31 WA	STATE STAT	1968 1968	Columb STATE Columb Co	Title Control Contro	Source S	THE OBJECT OF THE PROPERTY OF	REVATIONS HIGH PIE SE	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	NUV.
Section Color Co	1/16 1	DEFIN	SOLAR SOLA	MO MO MO MO MO MO MO MO	1716 184 187	Coling State Coling Co	The control of the	Solution State S	THE OBJECT OF TH	REVATIONS HIGH PIE SE	THE CODE	TYPE AM 3 7	NO3-N	S1 D4-S1	0002	200

Table VI.—Continued

EFERENCE BY ID.	SHIP	LATITU	OE 10	NGITUDE	MAR SQU		STATION T	EM E	YEAR	CRUISE	NATOR'S		DEPTH	DEPTH OF	085	WAVI ERVAT		WEA-	Crond		s	NOOC
e NO.	CODE	•	1/10	1/10	3 10"	1°	MO DAY H	(R,1/10		NO.	NUMBE	Ř	BOTTOM	S'MPL	S DUL	HGT F	EP SEA	CODE	TYPL AM	1	^	NUMBER
11210	CS	4403	5N 04	1018W	149	41	03 02	129 1	968	D15 0	3		4645	11	14	4 3		Х 6	6 6			000
						WAT	TER Y	CNIN	BARC	A IR T	EMP C	J v 16	NO.	192	CIAL							
						COLOR	TRANS OIR	SPEED OR FORCE	METE (mbe		WE1	000	OBS.		ATIONS							
							13	529	17	3 146	14	3 6	14									
	MESSENGE TIME 0	CAST	CARD	DEPTH (n	st r	τ	5 %.	SIGN	A-T	SPECIFIC VOI	UME 110?	₹ A O	. SOI	DOLITY	02 ml/l		a=P 01/1	TOTAL=P	NO2-N	NO3-N	51 Oa-51	
	HR 1/10		1176				ļ	1			\rightarrow	x 103	-	_		P# .	4121	PH - 0171	90 - 001	μg - α1/l	98.00	1
			510	0000		495	3559	267		00128	99	0000		085								
	129		085	0000		495	35992	267		00100				085								
	120		016	0010		495	3600	261		00129	11	0013		086 088								
	129		08\$ STO	0018		495 495	36000 3600	267		00128	0.0	0026		088								
			STO	0030		494	3600	267		00123		0020		089								
	129		085	0037		493	36000	267		0012 /	00	005		090								
			STD	0050		494	3600	267		00129	82	0065		093								
	129		085	0055	ī	495	36000	267	7				15	094								
	129		OBS	0074	1	496	36001	267	77				15	097								
			STD	0075	1	496	3600	267	7	00130	87	0097	15	097								
			STO	0100		497	3600	26		00131	91	0130		102								
	129		08\$	0110		498	36001	267						104								
			STD	0125		498	3600	26		00132	88	0163		106								
	129		085	10148		498	35998	267		00133		0196		110 110								
			\$10 \$10	0150		498 498	3600 3600	261		00135		0264		118								
	129		085	0200		498	36002	261		00155		J Z O 4		122								
	127		510	0250		493	3599	267		00136	. 9	0332		125								
	129		085	T0297		485	35965	26			. ,			130								
			STO	0300		457	3590	267		00136	77	0400		120								
	136		D8S	0303		430	35848	268						112								
	136		D85	T0370	1	315	35670	26	0				15	083								
			STD	0400	1	275	3561	269	13	00123	76	0530	15	074								
			SID	0500	1	129	3543	270	8(00111	72	0648	15	038								
	136		085	0519		099	35392	271						030								
			510	0600		945	3523	272		00096	17	0752		985								
	136		085	10669		832	35123	273						953								
			STO	0700		786	3512	274		00080	_	0840		941								
			STO	0800		661	3509 3507	279		00065		0913 0974		908 888								
			STO	0900 1000		569 511	3504	277		00055		1028		881								
			STD	1100		466	3504	27		00050		1079		887								
	136		D85	T1100		486	35014	27		30070				887								

REFERENCE	SHIP					- 2	MAR	OEN	STA	ION II	ME			ONGIN	ATOR'	S	DEPTH	MAX		WAVE	WEA-	CLOUD			1000	
CTEY ID.	CODE	LATITU	- 1	LONG	GITUDE	88	20 U			(G 44 f)		TEAR			TATIO		TO MOTTOM	. OF	0.	SERVA TIONS	CODE	CODES		5	ATION	
			1/10		1/10	-	10*			H YAC			$\overline{}$	_	UMB			3		HGT FFE SE	`	TYFT AM	-			
311210	CS	4403	N	040	58 W	1	149				_	1968	D.				4645	14	15	2 3	X1	6 7			0004	
								WA1	TER	- "	IN O	BAR		A IR TEA	49 °C	VIS.	NO.	592	CIAL							
								COLOR	TRANS	OIR.	SPEED	4-1		DRY	WE	1 000	OBS.		ATIONS							
										18	\$16	0.9		156		0 7	11	_								
		, ,					,		<u> </u>	10	310	0,	-	1,0	10	٠,	1.1	L		L,						_
	MESSENGE TIME	CAST	CAI		OEPTH	lm 1	r	₩	5	-/	SIG	M A - T	SPE	CIFIC VOLU	MAP .	≨ ∆ O	501	UND	02 ml/		101AL-P	NO2~N	NO3-N	51 04-51	ρН	S C
	HR 1/10	NO.	TYI	PE				-			1		^'	OMALT-21	"	x 10 ³	AEFI	OCITY		PB + 41/1	μ μ - 61/ Ι	µg - at/1	µg = qt/	V8 - 01/1		[c]
			SI	T D	000	0	1	496	35	99	26	76	0	01296	4	0000	15	085								T
	128	3' '	D85		000	0	1	496	35	986	26							085		1 '						
				I D	001	0		495	35		26			01294		0 01 3		080								
				I D	002			494	35		26		0	01295	8	0026		8 ⊵0								
	1 28	ļ	085		002			494		995	26							088								
				10	003			496	36		26		0	01299)	0039		0 3 0								
	128	1	QB:		004			498		99€	26							093								
				ΓO	005			497	36		26		0	01306	5	0065		093								
	128	3	085		006			495		995	26		_					096								
				TO	007			495	36		26		0	01309	3	0098		097								
	128	,	085		009			495		000	26			01215		0120		099								
				T ()	010			495	36		26 26			01315		0130										
	1 20		08		012			497 497	36	100	26		U	01324	7	0163		106 108								
	128	,		T D	015			497	36		26			01334	2	0197		110								
	128		08		T018			498		997		76	0	01334	7	0141		115								
	120	,		TD	020			486	35		26		0	0134ช	1	0264		114								
				T D	025			447	35		26			01339		0331		109								
				T D	030			401	35		26			01324		U 39 B		101								
				TD	040			285	35		26			01249		0526		077								
				τō	050			137	35		27			01131		0645		040								
	128	3	UB:		T053			075		355	27							024								
				TD	060	0		929	35	19	27		0	00964	2	0750	14	979								
				10	070			741	35		27			00816		0839		922								
	128	3	08:	S	071	1	0	724	34	998	27	40					14	917								
			5	T D	080	Ü	0	621	34	98	27	53	0	00679	6	0914	14	891								
	128	3	D 8	S	1089	0	0	5 3 7	34	962	2.7						14	872								
				f D	090	0		534	34		27			0 0 5 8 7		0977		872								
				T D	100			508	34		2.7			00563		1035		378								
				TO	110			481	34		2.7			00540		1090		884								
				I D	120			455	34		27			00514		1143		890								
				T D	130			428	34		27		0	00489	7	1193		895								
	129	3	08	2	T136	0	0	412	34	963	27	11					14	899								

Table VI.—Continued

REFERENCE SHIP LATITLE	IDE LONG	SITUDE SO	MARSDEN SQUARE	STATION TIME	YEAR	ORIGINATOR	N .	EPTH MAK TO DEPTH		WAVE ERVATIONS	WEA-	CLOUD		5	NODC TATION TUMBER	
CODE ND. CDDE	1/10	17 10	10° 1° M	0 DAY HR.1	/10	NO. NUMB	-	579 13	+	HGT PER SE-	X 1	8 3	-		0005	
311210 CS 4359	N 041	03 W 1	WATE	WIH	ID BARC	AIR TEMP T	- VIE	NO. SHE	_	- -	,	1 - 1-	1		'	
			COLOR T	MI DIR.	OF IMPR	1 TULE BUL	CODE	EPTHS DUSERY								
				17 5	20 180	162 14		14		1		_		_	_	T
MESSENGE CAST	CARD	DEPTH (m)	1 5	5 %.	SIG MA -T	SPECIFIC VOLUME ANDMALT-E107	¥ 103	VELOCITY	O 2 ml/l	PO 4=P µg = 81/\	101AL-F	ND2~N	NO3-N	\$1 Q4=\$1 yg - 01/	рН	ŝ
HR 1/10	STO	0000	1501	3601	2670	0012923	0000	15087								\forall
128	085	0000	1501 1501		2676 2676	0012936	0013	15087								
128	STD 085	0018	1500	36008	2677			15089 15090								
	STO STD	0020		3601 3601	2676 2676	0012970 0013043	0026 0039	15092								
128	085 STD	0037		36008 3601	2676 2677	0013048	0065	15094 15095								
128	085	0057	1500	36011	2677 2676	0013139	0098	15096 15099								
128	STD 085	0075 0075	1501 1501		2676			15099								
128	\$ 7 0	0100 0116	1502 1503	3600 35997	2676 26 7 5	0013300	0131	15103 15 1 06								
120	STD	0125	1503 1502	3600 3600	26 7 5 26 7 6	0013397	0164 0198	15108 15112								
128	STD D85	0150 T0159	1502	36005	2676			15113 15114								
128	STD 085	0200 0235	1486 1474	3598 35958	2678 2678	0013408	0265	15116								
	SID	0250	1472 1460	3595 3594	2679 2680	0013459 0013464	0332	15118 15122								
128	ST0 085	0300 T0319	1452	35932	2681			15122 15119								
128	OBS STO	0392 0400	1407 1395	35832 3581	2683 2684	0013331	0533	15116								
128	08S STD	0472 0500	1274 1202	35641 3554	2696 2702	0011736	0659	15085 15064								
	STD	0600	0973	3525	2721	0009945	0767	14996								
128	085 STO	0638 0700	0897 0789	35163 3509	2727 2738	0008311	0858	14941								
128	ST0 085	0800 0813	0643 0627	3500 34995	2752 2753	0006960	0935	14900 14896								
120	STD	0900	0591	3500	2758	0006402	1001	14896 14896								
	STD	1000 1100	0550 0508	3500 3500	2763 2768	0005515	1121	14895								
128	510 280	1200 T1264	0467 0440	3500 34995	2773 2776	0005070	1173	14895 14895								
120	003															
REFERENCE		- =	MARSDEN SOUARE	STATION TI	ME	ORIGINATO		DEPTH DEP		WAVE ESERVATION	S WE		D		NODC	Π.
CTRY ID. CODE	1/10 LO	HGITUDE \$		MO DAY H		NO. NU	TIDN	EMIZ MOTTON	F		1 00				NUMBE	<u>'</u>
		17.10	10										. 1	_		
311210 CS 440		100 H	149 41	03 06 1	26 196	A IR TEALP		4587 4.		¬' ' '	X	1 9	3		000	6
311210 CS 440			149 41 WA	03 06 1	.26 196	BO- AIR TEMP			3 17	¬' ' '	X	1 9 :	3		000	6
311210 CS 440			149 41	03 06 1	ZÓ 196	RO- AIR TEMP TER DRY V	VET CODE	NO. S		¬' ' '	X	1 9	3		0000	
MESSENGA CAS	00 N 04		149 41 WA	03 06 1	ZÓ 196	RO- AIR TEMP TER DRY V bal BULB B	₹ ∆ 0	NO. DBS. DEFTHS DBSE		5	IOTAL	_/ NO ₂ _	N NO3-	N 5104-	-S:	s
311210 CS 440	00 N 04	100 W	149 41 WA COLOR CODE	03 06 1 TER W TEANS DIR. 17	26 196 (IND BA SMED OF IM STORE IM S18 1: SIGMA-T	RO- TER D9T BULB B 29 167 1	VIS. CODE	NO. DEFTHS OBSE 21 SQUIND VELOCITY 15083	PECTAL RVATION	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
MESSENGA CAS	OON 04	DEPTH (m)	149 41 WA COLOR CODE	03 06 1 TER W TEANS DIR. 17 5 %.	26 196	BO- AIR TEMP TER DST SHEET BULB B 29 167 1 SPECIFIC VOLUME ANOMALY-2107	VET CODE ULB 239 7	NO. OBS. DEFTHS DESE	PECTAL RVATION	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
MESSING CA TIME OF NO HR 1/10	CARD TYPE STO O8S STO STO	DEPTH Um) 0000 0010 0020	149 41 WA COLOR CODE 1491 1491 1492	03 06 1 TER W TEANS DIR. 17 5 %. 3595 3595 3595 3595	26 196: (IND BA SPITED ME FORCE IM 518 1: SIGMA-T 2674 2674 2674 2674	RO- AIR TEMP TER DPT 1 1 1 1 1 1 1 1 1	₹ Δ 0 DYN, M x 10 ³	NO. 085. 085E 21 SOUND VELOCITY 15083 15085 15086	PECTAL RVATION	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
WESSENGA CAS TIME OF NO HE 1/10	CARD TYPE STO O8S STO	DEFTH Um) 0000 0000 0010 0020 0024 0030	149 41 WA COLOR CODE 1491 1491 1491 1492 1493	03 06 1 TER W TEANS DIR. 17 35.75 35.95 35.95 35.95 35.95 35.95 35.95 35.95 35.95 35.95	26 196: SIGMA-T 2674 2674 2674 2674 2674 2674	RO- ASS TEMP TER DPT BULB 10 29 167 1 SPECIFIC VOLUME ANOMALY-2107 0013100 0013139	VIS. VIS. VIS. VIS. VIS. VIS. VIS. VIS.	NO. OBS. DEFINS OBSE 21 SQUIND VELOCITY 15083 15083 15086 15087 15088 15088 1	PECTAL RVATION	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
MESSING CA TIME OF NO HR 1/10	STO OBS STO OBS	DEPTH (m) 0000 0000 0010 0020 0024 0030 0046	149 41 WA COLOR CODE 1491 1491 1492 1492	03 06 1 TER W TEANS DIR. 17 S %. 3595 3595 3595 35954	26 196: VIND BA SPICE IM SIGMA-T 2674 2674 2674 2674 2674	BO AIR TEMP FR DSY D	39 7 \$\frac{5}{2} \times 000000000000000000000000000000000000	NO. OBS. OBSE 21 SOUND VELOCITY 15083 15085 15086 15087 15092 15092 15092	PECTAL RVATION	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
##5518HGF CF A 17-10 12-6	T CAND TITE O S S T D O S S S T D O S S S T D O S S S T D O S S S T D O S S S S T D O S S S T D O S S S S S T D O S S S S T D O S S S S T D O S S S S T D O S S S S T D O S S S S T D O S S S S T D O S S S S S T D O	DEPTH Um) 0000 0000 0010 0020 0024 0030 0046 0050 0070	149 41 WA COLOR COOF 1491 1491 1491 1492 1493 1495 1494 1492	03 06 1 TRANS DR. 17 17 17 17 17 17 17 17 17 17	26 196: SIGMA-T 2674 2674 2674 2674 2674 2674 2674 2674	## AS TEMP 100	VILES VIE VIE VIE VIE VIE VIE VIE VIE VIE VIE	NO. OBS. SOUND SOUND VELOCITY 15083 15085 15086 15087 15098 15092 15095	PECTAL RVATION	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
126	T CAND THE STO OBS STO	DEPTH Im) 0000 0000 0010 0020 0024 0030 0045 0075 0070 0075	149 41 WA COURT COOR 1491 1491 1492 1493 1495 1494 1494 1494 1494 1494 1494 1494	03 06 1 TER W TEMPL DB. 17 5 %. 3595 3595 3595 3595 3595 3595 3595 3595 3595 3595 3595 3596 3596 3595 3596 3596 3596 3596 3596	26 196: 19	## AB TEMP ###	VIL VIS VIS VIS VIS VIS VIS VIS VIS VIS VIS	NO. 1085 0856 21 SOUND VELOCITY 15083 15083 15085 15086 15087 15098 15092 15092 15095 15095 15098	PECTAL RVATION	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
MESSINGE CAN TIME SE MESSINGE CAN MESSINGE	CARD TYPE STO OBS STO OBS STO OBS STO OBS STO OBS STO OBS STO OBS STO OBS STO OBS STO	DEFTH (m) 0000 0000 0010 0020 0024 0030 0046 0050 0070	149 41 WA COLORD COOR COOR COOR COOR COOR COOR COOR C	03 06 11 W 15 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	26 196 19	## AS TEMP 100	VILES VIE VIE VIE VIE VIE VIE VIE VIE VIE VIE	NO. 1081 0882 15083 15083 15083 15083 15082 15092 15095 15098 15099 15103	PECTAL RVATION D2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
MESSINGE CAN TIME SE MESSINGE CAN MESSINGE	T CARD THE THE THE THE THE THE THE THE THE THE	DEPTH (m) 0000 0000 0010 0020 0024 0050 0070 0075 0093 0100 0125	149 41 WA COLOR CODE 1491 1491 1492 1493 1495 1494 1491 1491 1491 1491 1491 1491	03 06 1 FER W TEMPS DB. 177 5 %. 3595 3596	26 196: 19	No. No.	VILE VILE VILE VILE VILE VILE VILE VILE	NO. DES DESERTED IN THE PROPERTY OF THE PROPER	PECTAL RVATION D2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
126 126 126	T CAND N 04	DEFTH m1	149 41 wA corose coor 1 1491 1491 1492 1492 1493 1494 1492 1493 1494 1492 1493 1491 1491 1491 1491 1491 1491 1491	03 06 1 W TER W TERMS DR. 177 S %. 3595 3595 3595 3595 3595 3595 3595 359	26 196. 19	### AB TEMP ### A	V VI VI VI VI VI VI VI VI VI VI VI VI VI	NO. 0550 PERMS OF SECOND CONTROL OF SECOND CONTR	PECTAL RVA TION	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
TIME CA TIME	00 N 040 N 0	DEFFH (w) 0000 0010 0010 0010 0010 0010 0010 00	149 41 wA corose cool 1491 1491 1492 1492 1492 1492 1492 1492	03 06 1 TER W	26 196. 19	No. No.	VILES VIEL	NOST OSSE DEFINS OSSE 21 SOUND VELOCITY 15083 15083 15085 15086 15087 15088 15092 15095 15095 15098 15097 15103 15106 15107 15111	PECIAL EVATION 02 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
TIME CA TIME	00 N 040 N 040 N 040 N 040 N 045 N 10 085 N 10 0	DEFIH (m)	149 41 WA COLORD 1491 1491 1492 1492 1492 1494 1495 1495 1495 1495 1497 1497 1497 1497 1497 1497 1497 1497	03 06 1	26 196 19	No. As TENT	V VI VI VI VI VI VI VI VI VI VI VI VI VI	NO.5 OSSE DEFINS OSSE 21 SOUND OSSE 15083 15083 15085 15086 15087 15099 15099 15103 15106 15107 15114 15114 15116	PECIAL D2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
126 126 126 126 126	00 N 040 N 0	DEFTH bm)	149 41 WA Cotose Cool 1491 1491 1492 1492 1493 1495 1496 1496 1496 1496 1496 1496 1496 1489 1489 1489 1489 1489 1489 1489 1489	03 06 1	26 196	No. As TENY	VI VI VI VI VI VI VI VI VI VI VI VI VI V	NO OSE	PECIAL D2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
126 126 126 126 126 126 126 126	00 N 040 T CARD 1791 OBS 510 DEFTH Im	149 41 wA corose cool 1491 1491 1492 1492 1492 1492 1492 1492	03 06 1 188	196. 196.	### AB TEMP ### A	The state of the	NOS. 0856 DEFINS 0856 21 SOUND VECCUT 15083 15083 15085 15086 15087 15098 15092 15095 15095 15096 15106 15107 15111 15114 15118 15116 15117 15094	PECIAL D2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s	
MESSING CAN TIME CAN	00 N 040 N 040 N 040 N 040 N 045 N 10 085 N 10 0 085 N 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DEPTH Im) 0000 0010 0020 0010 0024 0030 0075 0075 0093 0100 0125 0140 0150 70186 0200 0250 0285 0300 70382 0400	149 41 wa conservation of the conservation of	03 06 1	196 196	No. As TENY	The state of the	NO.5 OSSE OSSE OSSE OSSE OSSE OSSE OSSE OSS	PECIAL EVATION O2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
MESSING CAN TIME SE MESSING CAN	00 N 040 T CARD TYPE STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD	DEFTH lm1	149 41 WA Cotobe Cool 1491 1491 1492 1492 1492 1492 1495 1496 1495 1496 1496 1496 1489 1496 1489 1496 1489 1496 1489 1496 1489 1496 1489 1496 1498 1496 1498 1496 1498 1496 1498 1496 1498 1496 1498 1498 1498 1498 1498 1498 1498 1498	03 06 1	2674 2674 2674 2674 2674 2675	No. As TENT	Value Val	SOUND OSS	PECIAL O2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
MESSING CAN TIME CAN	CARD O40 N O40	DEFTH imi	149 41 wA corose coor 1491 1491 1491 1492 1493 1495 1494 1492 1493 1495 1496 1485 1473 1322 1190 1486 0985 0933 0758	03 06 1 188	196. 196.	No. No.	00000000000000000000000000000000000000	No. No.	PECIAL DO 2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
Testing Case First Case First Case First Case First 00 N 040 N 0	DEFIH lm)	149 41 wa conservation of the conservation of	03 06 1	196.	No. As TENT	Value Val	NO NO NO NO NO NO NO NO	PECIAL DO 02 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s	
126 126 126 126 126 126 126 126 126 126	00 N 040 T CARD THE STO 085	DEPTH Im	149 41 wa conservation of the conservation of	03 06 1 188	196 196	No. As TENT	00000000000000000000000000000000000000	No. No.	PECIAL D2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
126 126 126 126 126 126 126 126 126 126	CARD O40 N O40	DEFTH bm)	149 41 wA corose coord	03 06 1 188	196. 196.	No. As TENT	00000000000000000000000000000000000000	SOUND OSS	FECIAL REVATION O2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
126 126 126 126 126 126 126 126 126 126	CABD N O4	DEPH (w) 0000 0010 0020 0024 0030 0070 0070 0070 0125 0140 0150 0250 0285 0300 0480 0500 0700 0700 0700 0700 0700 0700 07	149 41 WA Crosses Cool 1491 1491 1491 1492 1492 1492 1493 1495 1494 1492 1491 1491 1491 1491 1491 1491	03 06 1 188	196.	NO AB TEMP.	0000 0013 0026 0039 0066 0099 0132 0166 0199 0267 0335 0403 0535 0656 0762 0762 0762	NO NO NO NO NO NO NO NO	FECIAL REVATION Opm Opm 1	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
126 126 126 126 126 126 126 126 126 126	0 N 040 DEFIH Im)	149 41 WA COLORD 1491 1491 1492 1493 1495 1494 1492 1491 1491 1491 1491 1491 1491	03 06 1 188	196 196	No. As TEN	0000 0013 0066 0099 0132 0166 0199 0267 0335 0403 0535 0403 0535 0403 0535 0403 0545 0656 0762	No. Control	FECIAL REVATION Opm Opm FECIAL REVATION FECIAL REVATION Opm Opm Opm Opm Opm Opm Opm O	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s	
126 126 126 126 126 126 126 126 126 126	00 N 040 N 0	DEFTH bm2	149 41 wa corose coof 1491 1491 1491 1492 1492 1493 1495 1495 1495 1496 1489 1485 1475 1478 1478 1478 1478 1478 1478 1478 1478	03 06 1 188	196. 196.	No. As TENY	00000000000000000000000000000000000000	SOUND OSS	FECIAL REVATION O7 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
Testing Case 00 N 040 T CARD THE STO 085 STO	DEFFH Image DOOO	149 41 wA corose cool 1491 1491 1491 1492 1492 1492 1492 1493 1495 1496 1496 1496 1496 1496 1496 1496 1496	03 06 1	196.	No. As TEN	00000000000000000000000000000000000000	SOUND OSS	FECIAL RYATION O7 m O7 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s	
126 126 126 126 126 126 126 126 126 126	CABD N O4	DEPH (w) 0000 0010 0020 0024 0030 0046 0053 0070 00175 0186 0200 0480 0500 0480 0500 0480 0500 0700 0700 0700 0700 0700 0701 0800 0700 07	149 41 WA Crosses Cool 1491 1491 1491 1492 1492 1492 1493 1495 1494 1492 1491 1491 1490 1485 1473 1452 1438 1343 1322 1190 1148 0985 0631 0549 0491 0395 0330 03316 0330 03758 0352 0339 0316 0300 0278 0224	03 06 1 188	196.	No. As TENY	0000 0013 0026 0039 0066 0099 0132 0166 0199 0267 0335 0403 0535 0656 0762 0762 0762 0762 0762 0762 0762 076	No. Control	FECIAL REVATION O 2 m	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s
Mark CA Mark CA Mark CA Mark CA Mark CA Mark Mar	0 N 040 N 040 N 040 N 045 N 045 N 10 085 DEPH (w) 0000 0010 0020 0024 0030 0046 0053 0070 00175 0186 0200 0480 0500 0480 0500 0480 0500 0700 0700 0700 0700 0700 0701 0800 0700 07	149 41 wA conserved was conserved was conserved was conserved with the conserved was conserved with the conserved was conserved with the conserved was conserved with the conserved was conserved with the conserved was conserved with the conserved was conserved with the conserved was conserved was conserved with the conserved was conserved was conserved was conserved with the conserved was conse	03 06 1 188	196. 196.	No. As TENY	0000 0013 0026 0039 0066 0099 0132 0166 0199 0267 0335 0403 0535 0656 0762 0762 0762 0762 0762 0762 0762 076	No. Control	FECIAL REVATION Opm Opm The state of the	S PO4~P	IOTAL	_/ NO ₂ _	N NO3-		-S:	s	

NCE	SHIP	LATITU	ns I	NGITUDE B	MARSDEN	STATION TO	IME	AR C		ATOR'S	\Box	DEPTH	MAX.	045	WAVE ERVATIONS	WEA-	CFORD		Τ.	NODE
10. NO.	CODS	·	1/10	1/10	10* 1*	MO DAY H		J	NO.	STATION NUMBER		BOTTOM	S'MPL"		NGT PLE SE		TTPE AM			UMBE
_	CS 4	4406		4102 W	149 41	03 07 1			15 00		_	4827	15	-	1 3	×1	4 5	+	-	000
10	62	****	. 10	1102 11	1.		VIND T	001	AIR TE			1	1	112	1-1-1	1 ~ 1	1 .1-	I	į	
					COLO			+ORAR METER	DRY		VIS.	NO.	598	CIAL						
					COOL		PORCE	(mbe)	BULB	BULB	CODE	DEPTHS	ORSERV	2 MOIT A						
						12		119	144	133	7	14								
Γ.	MESSENGE			Т		+	1			- T-	^ ^	Н.			1					
	TIME of	CAST NO.	CARO	DEPTH (m.)	1 70	5 %.	SIGMA	-t '',	CIFIC VOLU	ME DY	A. D.	, SOL		02 mt/l	PO4=P 23 - 01/1	1014 L-P 98 - H1/1	NO2-N	NO3-N pg - 61/I	\$1 O4=\$1 yq = 01/1	
- 1	HR 1/10			0000		2501	2.75			_	103	1			28 - 417	P# - 2007	201	14 - 001	94 - 01/1	-
			STO	0000	1481	3594	2675		01299	3 100	00	150			1					1
	129		08 S	0000	1481	35939 3594	2675					150								
			STO	0010	1480 1478	3594	2676) 01 2 9 9) 01 2 9 9		126	150								
	129		D85	0023	1478	35942	2676		1012 79	5 00	20	150								
	127		STO	0030	1479	3554	2676		01302	8 00	39	150								
	129		085	0046	1480	35936	2675		,01302	0 00		150								
			STO	0050	1479	3594	2676		01309	7 00	165	150								
	129		DBS	0068	1474	35945	2677					150								
			STO	0075	1469	3594	2678		01296	4 00	198	150								
	129		085	0092	1460	35928	2679					150								
			STO	0100	1459	3592	2679		01294	8 01	30	150								
			5 T O	0125	1454	3591	2679		01300	7 01	63	150	91							
	129		085	0136	1450	35906	2680	1				150	91							
			STO	0150	1442	3589	2680) (01299	3 01	95	150	91							
	129		085	10181	1428	35866	2681					150	91							
			STO	0200	1424	3586	2682		012 98		60	150								
			STO	0250	1412	3583	2682		01310	5 03	25	150								
	129		DBS	0271	1406	35820	2683					150								
			STO	0300	1401	3579	2681	C	01332	1 03	91	151	101							
	129		085	T0356	1375															
	. 20		018	0400	1350	3568	2683		01335	8 05	25	150								
	129		085	0448 0500	1285	35628	2693			0 01	٠.	150								
	129		\$1D D85	T0538	1148	3541 35287	2702		01166	9 08	50	150								
	129		210	0600	0934	3518	2722		00979	0 07	57	149								
			510	0700	0766	3506	2739		00817			149								
	129		085	0720	0737	35047	2742		50011	, 00		149								
	167		STO	0800	0645	3502	2753		00681	2 09	22	149								
			STD	0900	0549	3500	2763		00582		85	148								
	129		085	10903	0546	34994	2764				~ ,	148								
			SID	1000	0522	3499	2766		100563	0 10	42	148								
			STO	1100	0497	3498	2769		00545			148								
			STD	1200	0473	3498	2771		00527			148								
			STO	1300	0448	3497	2773	C	00508	7 12	03	149	04							
			S T 0	1400	0423	3497	2776	0	00489	5 12	53	149	10							
	129		085	T1453	0410	34965	2777					149	14							

FERENCE	SHIP	1 - 27	.			E 5	MA	SDEN	STA	ION T				ORIGIN				DEPTH	DEPT		on.	AVE		WE		Cron			NO	DC
ID.	CODE	LATITU	1/10		1/10	MOC N	10,	U ARE		GMTI GAY IH		BAST	CRUIS		STATIO		80	O7 MOTE	OF S'MFL			GT PER		COL	34	TODE			AT2 NUN	
11210	CS	4408		040		+	14	\rightarrow	$\overline{}$			968	01	-	_		4	827	16	-	8 2		MA	X.	- (8 4			0.6	00
	00					1	1 -	WA			IND	_	-	A IR TE		_	4				٦,	1-1	l	1 "	,	٠, ١	1		•	
								COLOS	TRANS	O.A.	17110	METER		DRY	wŧ	v	2	NQ. 085.	92 83280	ECIAL VATIO	NS.									
								CODE	(m.)	16	525	149		1018	15	1	0	EPTHS			4									
r							,		Ļ	10	32)	147			123	1	1	13			Ц,						,	_		
	MESSENGE TIME NR 1/10	및 NO.	CAR		DEPTH	(m.)		7 10	5	٠/	SIGM	A-1	AND	IC VOLU	ME 07	₹ ∆ DYN. # 10	D M	AFF0 ZON		02	nc/1	PO4= #8 - #1		OTA L-		0 - 01/l	иО ₃ ~			9.4
- 1			S 1		000			501	35		267		00	1309	8	000	0	150												
,	130),	085		000			501		582	267							150			,				•			,	,	
			S 1		001			501	35		267			1312		001		150												
			\$1		002			1502	35		267		001	1314	0	002	6	150												
	1 30)	089		002			502		986	207							150												
			51		003			501	35		267			1314		003		150												
	1.20		51		005			496	35		267		001	309	6	006	Ь	150												
	130	J	OBS		005			496		989	267		0.01			0.00		150												
	1 30		089		007			494	35	98 <i>2</i>	267	0	001	1316	a	009	đ	150	141											
	1.50	,	51		010			493	35		267	4	001	323	c	013	,	151	00											
			51		012			491	35		267			1327		016		151												
	130	1	089		014			490		582	267		001	121	•	010	_	151												
		,	51		015			488	35		267		0.01	1329	8	019	R	151												
	1.30)	D85		T019			464		937	267			,,,	_			151												
	-		51		020			460	35		267		001	1322	5	026	4	151												
			51	D	025			436	35		268			1323		0331		151												
	1 30)	089	5	028			413		836	268							151												
			S 1	0	030		1	406	35	82	268		001	1319	8	39	6	151												
	1.30)	089	5	T038	7	:	329	35	70 C	268							150												
			S 1	D	040	0	1	313	35	57	269	0	001	268	8	052	5	150	87											
	1.30)	089	5	048	9	1	178	35	476	270	2						150	153											
			5 7		050		1	154	35		270	4	001	148	9	064	7	150	46											
	1.30)	DBS		1058			978		227	271							149												
			S 1		360			1952	35		272			988		375		149												
			S 1		070			775	35		273			0816		384		149												
			S1		090			0638	35		275		000	0689	6	91	9	148												
	1 30)	D85		080			15 38		995	275				_			148												
			S 1		090			1556	34		276			06 05		3984		148												
	1.20	,	S1		100			1488	34		270		000	0543	U	04	1	148												
	1 30	,	DBS ST		1101			1481		95.2	276		00/	ne 2 1				148												
			S1		110			1466 1448	34		276			0531 0524		091 141		148												
			S 1		130			344B	341		277)524)516:		1200		-												
			51		140			9414	34		277)5 08·		251		148												
			51		150			1396	341		277)3 U 8 ·		30		149												
	130	1	089		T158			1381		912	277		500	, 177		. 50		149												

Table VI.—Continued

RENCE	SHIP					MAR UO2	SDEN	STATI	ON TIM		EAR		ONGIN			DEFT		N OF	WAV	TIONS	WEA		CODES		5	NODC
ID.	CODE	LATITU		LONGITUD	10.71						LAK	CPUIS NO.	E 5	TATIO	DN IFB	80110	5 MP			PER S			TPL AM1	+		UMBER
NO.	-	<u> </u>	1/10		/10	10*			AY HR.		27.0	01	-			458				3	X a		6 8			0009
1210	CS	4400	N C	4100	¥	149	41	03 1	1 12		968	01:	1			420	1 4-	, , , ,	10	1	""	.	0 10	1	- 1	
							WAT	ER	Wil		BARC		A IR TEA		VIS.	NO.		PECIAL								
							COLOR	TEANS	DDL	17ED	METE (mbe		DRY	WE		DEPT	S OBSE	EVA TIONS	ļ							
							CODE			515	244		094		9 7	14	- 		1							
							<u> </u>		301	31)	۲. ۲.					1		_	Ц.		1	_	-		_	
	MESSENGE	CAST	CARD	Т			₹	١.	٠,, ا	SIGMA		SPECIF	C VOLU	Μŧ	E A D	. 1	OUND	O2 ml/		04-P	TOTAL-		02~N	NO3-N	\$104-\$1	рн
	TM4 -	NO.	TYPE	DEF	(H (m)	Ι'	C	Ι,	~	310 ***	`-'	ANO	MALT-S	۰′	x 103	· v	ELOCITY	-, .	20	- 61/1	28 - 41	7	g - 01/l	NB - 01/1	νg - αι/ί	
	H# 1/10		STO	000	000	1	513	360	13	267	5	001	301	5	0000	1	5091		Т							
	127	.!	085		000		513	360	8 50	267	5 '						5091	'								
	12,		ST		10		513	360	3	267	5	003	1305	5	0013		5092									
			STO		20		514	360	3	267	5	00	1308	7	0 02 6		5094									
	127		085		24		514	360	29	267	5						5095									
			510		30		515	360		267			1315		0039	_	5096									
			ST		50	1	517	360	2	267		00	1328	4	0066		5100									
	127	,	085	00	050	1	517	360	024	267							5100									
			STI	00	75		513	360		267		00	1325	5	0099		5103									
	127	7	085		75		513	360		267							5103									
			ST	0 01	00		515	360		267		00	1337	5	0132		5108									
	127	7	088		101		515		27	267				_	0166		5108 5111									
			ST		125		514	360		267			1342		0199		5115									
			ST		150		512	360		267		00	1345	0	017		5115									
	127	7	088		150		512		026	267		0.0	1334	a	0266		5100									
		_	ST		200		445	35	869	267		30	1)) 7	,	0200		5100									
	127	r	085		202		422	35		268		00	1331	1	0333		5100									
			ST		250 300		390	35		268			1308		0399		5097									
			ST		303		388		783	268		-		-	• • •		5097									
	12	,	08\$ ST		400		302	35		269		0.0	1254	3	052	1	5083									
	12	7	085		406		293		548	269							5081									
	12	'	ST		500		110	35		270		00	1104	3	0645	5 1	5030									
	12	7	085		504		102		387	270	9					1	5028									
	12	,	ST		600		900	35		272	6	00	0938	2	074	7 1	4968									
	12	7	085		605		0890	35	152	272	7					1	4965									
		•	ST	D 0	700	(721	35	05	274	5	00	0757	3	083	2 1	4915									
			5.1		800	(0593	34	98	275	7	00	0640	7	090		4880									
	12	7	085	0	815	(0578	34	972	275	8						4876									
			ST	0 0	900	(1539	34		276			05 85		096		4874									
			ST	0 1	000	- (0499	34		276		00	0543	5	102		4875									
	12	7	085		026		1490		974	276							4875									
			ST		100		3466	34		277			0514		107		4878									
			ST		200		39	34		277			10489		112		4883									
			SI		300		0419	34		277			10480		117		4892									
			ST		400		0405	34		277			0478		121		4902									
			ST		500		0397	34		277		00	10484	- 1	126		4916									
	12	7	085	11	532		0396	34	934	277	6						4921									

Table VI.—Continued

FERENCE	SHIP				MARSDEN SQUARE	STATION TH	AE	ORIGINA		DEPIN	MAX. DEPTH		WAVE	WEA-	CLOUD			NODC
ET ID.	CODE	LATITUDE		NGITUDE BS					TION	BOTTOM	OF.		ERVATIONS	THER	CODES		5	TATION
11210	CS 4	400	/10 N 0.6	1/16 P		03 12 1	27 1908		MBER	4587	S'MPL'S	014	HGT FEB SE	-	31PI 4 M	·		
11210	103 4	400	1 04	100	1					4287	39	13	1 2	×1	8 2			0010
					WA		IND BAR		214	NO.	SPEC	IAL						
					COLOR	TRAME DIR.	POICE (ME		WET CODE	QBS. DEPTNS	OB2E#A	ATIONS						
						14	510 25		11 7	20								
		-					1	-		1			,					,
	MESSENGE I	CAST	CAND	DEPTH (m)	T TO	5 %,	SIG M A -T	SPECIFIC VOLUM	M MYD	SOU		02 =1/1	PO4=P	1074L-F	NO2-N	NO3-N	SI D4-Si	рН
	HR 1/10	NO.								. AEFO	CITY		μμ = 4 1/1	ν ρ - α 1/1	ug - 01/1	yg - ot/l	μg - 01/I	
		1	STO	00 00	1503	3600	2676	0012979	0000	150								
	127		085	0000	1503	36004	2676		·	150			, ,				,	,
			SID	0010	1502	3600	2676	0012988	0013	150								
			SID	0020	1500	3600	2676	0012999	0026	150								
	127		ORS STO	0022 0030	1500	36002 3600	2676			150								
	127		088	0045	1498 1497	35996	2676	0012996	0039	150								
	121		SID	0050	1497	3600	2676 2677	0013041	0065	150 150								
	127		365	0057	1498	36003	2677	0013041	0000	150								
			STD	0075	1498	3600	2676	0013143	0098	150								
	127		085	0089	1499	35998	2676	5045.45	00,0	151								
			STO	0100	1486	3558	2678	0013104	0131	150								
			5 T O	0125	1463	3555	2680	0012917	0163	150								
	127	1	280	0133	1457	35937	2681			150								
			STD	0150	1451	3593	2681	0012888	0195	150								
	127	1	280	T0176	1442	35911	2682			150	195							
			STD	0200	1437	3590	2682	0012 964	0260	150	98							
			STO	0250	1418	3585	2682	0013082	0325	150								
	127	-	280	0266	1409	35838	2683			150								
			510	0300	1390	3580	2684	0013016	0390									
	127	'	280	10359	1337	35718	2689	0013330	0517	150								
	127		STO	0400 0443	1287 1218	3565 35559	2,694 2701	0012320	0517	150								
	121	,	SID	0500	1094	3538	2710	0010899	0633	150 150								
	127		385	T 05 2 7	1038	35304	2714	0010877	0633	150								
	•		STO	0600	0886	3515	2728	0009227	0734	149								
			STO	0700	0721	3501	2742	0007867	0819	149								
	127		085	0703	0717	35003	2742			149								
			5 T O	0800	0617	3498	2754	0006740	0892	148								
	127	(285	T0877	0552	34972	2761			148	76							
			STD	0900	0542	3497	2762	0005917	0956	148	76							
			STD	1000	0503	3496	2766	0005590	1013	148								
			STO	1100	0469	3495	2769	0005327	1068	148								
			STO	1200	0440	3494	2772	0005126	1120	148								
			STO	1300	0417	3494	2774	0004925	1170	148								
	127	(285	T1335	0410	34937	2775	000107	1212	148								
			STD	1400	0404	3494	2775	0004871	1219	149								
	183	,	285	1500 11736	0398 0380	3494 34938	2776 2778	0004856	1268	149								
	103	,	SID	1750	0380	3494	2778	0004851	1389	149								
			STO	2000	0370	3494	2779	0004956	1512	149								
	183		385	2177	0361	34930	2779	0004730	1312	150								
	103	,	STD	2500	0338	3494	2782	0004863	1757	150								
	183		285	2748	0321	34938	2784	5004003	1101	150								
	• • •	Ì	STO	3000	0307	3493	2784	0004770	1998	151								
	183		285	T 3264	0290	34929	2786	3534110	. ,,,	151								
	183		OBS	T3797	0247	34917	2789			152								
	183		285	39020	0236	34912	27890											

NCE SHIP LAT	tuat lo	AGITUOE POR	MARS	DEN	STATION 1	TIME	YEAR	CRUIS	_	ATOR'S		OEPTH TO	MAX. DEPTH OF	01	WAVE SERVATIONS		COGES		- 5	NOOC TATION
ID. COOF	1/10	1/10	10"	1	MO DAY			NO	1	NUMBE		SOTTON	SMPLS	D/A	HGT PLATS		TYPI AM	7		UMBE
		100 W	149			128	1 768	01	5 01	1		4554	17	24	1 3	¥.2				001
1 1		'	' [WAT	TEO	WIND	BA	RO-	AIR TE	MP °C	VIS	NO.	SPEI	IAL				,		
				COLOR	TRANS DIR.	OF	D ME	TER	DRY	WET	COD	OBS. GEPTHS	DUSERV	A TIONS						
			ı		35			54	133	122	7	14								
MISSENGE CAS	T CARD		Τ.	7	5 */	1	5MA-1	198011	is vor	ME	₹ <u></u>	50	UND	02 ml/	PO 4-P	101AL-1	N07=N	NO3=N	\$104-\$1	,,
TIME of NO	TYPE	OEPTH (m)	'	L	, ,,,,	310	, m A -1	AMO	MALT-1	18,	₹ ∆ 0 0 vn. w x 10 ³	VEL:	OCITY	07	µg + 01/1	μ <u>α</u> - α1/1	μg - e1/9	µg − p1/(yg - s1/	, ,
	STO	0000		465	3554		579	0.0	263	9 (0000		074			1				
128	DBS	0000		+65	35942		579		1141		2012		074 \ 076							
	STD	0010		464	3594		580		1263 1263		0013 0025		077							
	SID	0020		463	3595 35946		580 580	00	1200	2 (102 3		078							
128	085	0027		462 462	3595		580	0.0	1265	2 (0038		078							
	STD	0050		465	3594		579		1279		0063		082							
128	085	0053		465	35940		579	00.			, , ,		083							
120	510	0075		461	3594		80	0.0	1278	3 (0095		085							
128	085	0081		60	35942		580						086							
	510	0100		459	3553		580	00	1290	4 (127	15	089							
128	D85	0107		458	35926	20	580					15	089							
•=-	STD	0125		444	3590		581	00	1288	7 (160	15	088							
	SID	0150	1.	429	3567	2	581	00	1287	0 (0192	15	087							
128	085	0163	1.	422	35863	2	682						086							
	STO	0200		412	3585		684	00	1281	3 (0256		089							
128	088	10217		406	35839		584						090							
	STD	0250		393	3581		685		1286		320		090							
	STD	0300		361	3576		687	00	1271	8 (0384		088							
128	085	0326		3 39	35720		689	0.0			0508		084							
	STD	0400		251	3558		696	UU	1212	0 1	J5 U 8		052							
128	085	10437		198 093	35508 3535		701 708	0.0	1110	1 4	0625		024							
1.20	STD 085	0500 0550		001	35234		715	00		. '	JU2 3		998							
128	510	0600		885	3512		726	٥n	0943	0 (727		962							
128	085	0662		766	35008		735			٠,			925							
120	210	0700		721	3500		741	00	0794	1 (0814		914							
	STO	0800		621	3497		752		0687		0888		891							
128	DBS	0886		554	34962		760					14	878							
	STD	0900		547	3496	2	761	00	06 04	4 (953	14	877							
	STD	1000	0	504	3497	2	760		0556		1 01 1		877							
	STD	1100		468	3497		771	00	0518	2	065		879							
128	085	T1109		465	34968		771						879							
	STD	1200		438	3496		774		0493		1115		883							
	STD	1300		415	3496		176		0478		1164		890							
	STO	1400		398	3495		777		0469		1211		900							
	STD	1500		388	3494		778	00	0469	19	1258		912							
128	085	T1660	0	386	34934	2	777					14	938							

REFERENCE					- 44	SDEN	STATION T	UALE		ORIGIN	ATON'S	GEPTH	MAX		WAVE	WEA-	crono	T T		000
CIEV IQ.	CODE	LATITU	QE	LONGITUDE	\$ 80 sor	JARE	(GMT)		YE AR		TATION	TO	DEPTH	085	ERVA TIONS	THER	CODES		1.2	ATION
CODE NO.	COOL	٠	1/10	17/10	10"	1.	MO DAY				UMBER	BOTTOM	2 MILLS		HGT 918 51		TTPE AM	1		
311210	CS	4401	N	04059 W	149	40	03 14	129	1968	015 012	-	4572	15	36	0 3	X1	6 5		10	0012
	• '					WA	FER S	NIND	TAR	AIR TEA	AP TO	ND.	SPEC							
						COLOS		SPEE	METI	DRY	WET COL	OBS.	OBSERVA							
						COOL	(m)	FORC			30.1	1	_							
							19	203	33	9 138	113 7	13								
	MESSING	CAST	CAR	D			T			SPECIFIC VOLU	u.	501	UNG	0	POP	101AL-P	NO2-N	NO3-N	5104-5	pH G
	TIME HR 1/10	약 NO.	TYP		(m)	1 10	\$ */	NO	T- AM	ANDMALT-ET	OYN. /		OCITY	O 2 ml/l	μ <u>α + α1/1 '</u>	*6 - =+/1	pp = 01/1	μg - ο1/1	μg - α1/1	рн С
	PR 17 10	+	51	D 000	0 1	492	3559	26	77	001283	5 0000	150	084							
	129	9! !	D85			492	35992		77				084		1 1			1	1 1	
			51			491	3599	2 6	7.7	001285	7 001	15	085							
			\$1	0 002	0 1	490	3599	2 t	77	001287	9 0026	15	086							
	129	9	089	002	5 1	490	35990	26	77			15	087							
			\$1	D 003	0 1	490	3599	26	77	001290	5 003		880							
			\$1	0 005	0 1	491	3559	26	7.7	001298	3 0064		091							
	12	9	089	005		491	35990		7.7				092							
			\$1	007		487	3599		78	001297	3 009		094							
	12	9	089			487	35991		78				094							
			\$1			488	3599		78	001307	012		099							
	12	9	089			1488	35986		78				099							
			5			490	3599		577	001321			103							
			S			1492	3599		577	001333	7 0196		108 108							
	12	9	085			492	35986		577	001301	7 026		108							
		_	\$			1455	3594		81	001304	026		104							
	12	7	0.6			454	35936 3589		581 581	001324	7 032		107							
				TO 025		1440 1412	3583		582	001324			105							
	12	0	D 8:			1410	35829		582	001324	, 057.		105							
	12	4	S			1317	3568		590	001269	5 052		088							
	12	a	D8			1314	35675		590	001207	, ,,,		388							
		,		ro 050		1154	3544		704	001156	1 064		046							
	12	a	08			1144	35433		705		•		044							
				TD 060		3929	3527		730	000905	5 074		980							
	12	9	0.6			0915	3412P		6430	,										
	• • •	-		TD 070		0760	3512		745	000764	5 083	1 14	931							
				10 080		0619	3500	2	755	000662	1 090	2 14	890							
	12	9	0.8	5 081	3 (0603	34988	2	756				886							
	12		08			0397	34933	2	776			14	921							

	SHIP	LATITU	06	LON	GITUD		DC I	MARS	DEN	STA	TION 1	IME	YEAR	CRUI	ORIGIE	STATIO		7	OEFTH TO	MAX. DEPTH OF	00	WA SERV	VE ATIONS		WEA- THER	CLOUE	2	\$	NODC TATION
CODE ND.	CODE		1/10			/10	ž-	10*	11	MO	OAY I	HR, 1/10		N(HUMI		- 1	BOTTOM	S'MEL	S DIA.	Ingt	PIR S	EA	COOE	1771 An			UMBER
311210	CS 4	4400		041			1	149					1968	01	5 01	3		-14	+609	16	23		2		x 1	6 5			0013
' '	'					- 1	-	Г	WA	ER	T-+	WIND	941		AIR TE	MP T	: T	┪	NO.			ı' '				, ,	'	'	'
								ı	cotos	TRANS	OIR.	SHIC	MET		DRY	WE	1 c	VIS.	OBS.	OBSERV	CIAL								
									CODE	Len F	1	POIC			TULE	#UI		_	OEPTHS										
											26	526	30	8	167	16	1 17	۱ ا	14										
	AESSENGE TIME	CAST	CAR	D I	DEP	TH (m	i	1	τ	s	٠/	SIG	MA-T	SPEC	FIC VOL	JME 187	₹ ∆ 01H.	. D.	\$OI VELO	JND	03 m1/		04-6		TA1-7	NO2-N	NO3-N	51 Oa-Si yg - at/1	φн
1	48 1/10	-	5.1	0	0.0	000	-	3.4	87	36	98	26	77	0.0	1283	4	000		150	382		+		╁			+	-	-
	128		085			000	- 1		87		97B		77	00	1607	٠,١	000	,,,	150					1			1	[ı
	120		ST			010			86	35			77	00	1285	5	001	13	150										
			ST			020			85	35			77		1287		0.02		150										
	128		085			24			85		976								150										
			ST	D	0.0	030		14	86	35	98	26	77	00	1291	9	003	39	15	386									
	128		085		00	348		- 14	87	35	577	26	77						150										
			ST	D		350			66	35			77	00	1297	3	006	4	150										
	128		DBS			072			83		978								150										
			ST			75			83	35			78	00	1298	1	009	7	150										
	128		08\$			096			64		976					_			150										
			ST			100			84		98	26			1309		013		15										
			ST			125			85	35			77	00	1320	10	016	2	15										
	128		085			144			86		975					,	010		15										
	128		\$1 08\$		TO:	150			81	35	910		78 80	00	1322	4	019	90	15	100									
	120		51			500			42		90	26		00	1306	۵	026	. 1	15										
			ST			250			13		87		85		1283		032		150										
	128		085			88			394		839	26		•		•		. •	150										
			ST			300			89		83		87	00	1280	13	039	90	150										
	128		085			387			154		743								150										
			ST			400			332	35			90	00	1277	7	051	8	150										
	128		085		04	484		11	66	35	472	27	04						150	148									
			ST	0	05	500		11	.23	35	41	27	07	00	1120	18	063	38	150	335									
	128		D85		T 0	584		0.0	23	35	153	27	22						14	74									
			ST		06	500			94	35			26		0943		074		14										
			ST			700			134	35			43	00	0776	7	082	? 7	14										
	128		085			789			26		994	2.7							146										
			51			800			18	34		27			0668		089		148										
			ST			900			554	34		27		00	05 93	Z	096	52	141										
	128		085			999			502		980								146										
	128		D85		113	559		04	07	34	964	27	11						144	130									

REFERENCE	SHIP	LATITUDE		GITUDE	DC.18	MARS		STATION	TIME	YEAD			NATO		DEP	TH DE	AX PTH		WAVE SVATIONS	WEA	CLOUC	T	Π,	NODC	
CODE NO.	C00f	1/10	100	1/10	88	10*		MO DAY			CEL	JISE ID.	STATI	ON REB	10TT	O	DE IPL'S		GF PER S	0000			,	TATION	
311210	CS 4	401 N	04	104 H	 - ,	149	+		130	1968	_	15 01		-	459		5		2 3	x 2	6 8	+		0014	
711210	103 14	401 11	0.4	.01 #	1 1.					1,700	, ,			. 1	1.27	· ·		-	12	1 ~ -	0 0	1			
							WAT	_	WIND	- IAI			EMP '	VIS	HO OB!		SPECI								
							COLOR	TEANS DI	100	1 773		DRY	100	ET COD	DEPT	HS DES	ERVA	SNOE							
								3				083	100		14			$\overline{}$							
						_			1		-		1-		1			1			,				-
	MESSENGE	CAST CA		OEPTH I	(m)	1	τ	\$ 14.	Sur.	5 M A - T	SPE	citic var	UMF	2 ∆ 0		SOUND	0	2 ml/l	PO4-P	1014 L-P	H03-N	NO3-N	51 D4-S1	ен	13
	H# 1/10	NO. IY	PE						"		A*	104AL7-	k19/	DYN A	" v	VELDCITY	1		µq + α₹/1	¥8 + 61/7	μg - σ1/1	μg - αt/(μg = αI/1		č
		5	10	0000	0	1	445	3591	21	581	0	01244	6	0000	1	5068	3								П
	1 30	0.6	5	0000	ο '		445	3591	5 , 56	581			,			5068			1		'	1	,	•	
			TO	001			440	3591		581		01248		0012		5070									
			TD	002			447	3591		581	0 (01252	6	0025		5071									
	130	DB		002			447	3591		184						5072									
			TD	003			448	3592		681	0.0	01256	8	0038		5074									
	1 30	0.6		004			450	3592		58 1						5077									
			T D	0050			450	3592		681	0.0	01264	+1	0063		5078									
	1 30	D8		007			447	35924		582	_					5080									
			TO	007			447	3592		581	0.0	01265	34	0094		5081									
	1 30	0.6		009			447	3551		581				4171		5084									
			TD	0100			442	3590		581		01277		0126		5083									
	1 30	0 B	0.1	0129			416 402	3585		683 684	u i	01267	10	0158		5078									
	1 30		TΩ	015			402	3582		583	0.0	01266		0190		5077									
	130	DB		1019			391	3580		584	U	01200	33	0190		5080									
	130		T D	020			3 8 5	3579		585	0.4	01270	11	0253		5079									
			τρ	025			348	3573		588		01253		0316		5075									
	130	0.8		02.8			320	3568		690	٠,	0127	, ,	0,10		5071									
	1.50		Tp	030			316	3568		590	0.0	01240	12	0379		5072									
	1 30	9.8		1038			253	3560		697	•	012 70		05.,		5064									
			īρ	040			233	3557		599	0.0	01185	54	0500		5059									
	130	0.8		048			116	3539		708						5029									
			10	050			085	3535		709	00	01099	5.7	0614		5021									
	130	0.8	S	T 05 75	5	0	962	35190	5	71.6						4987									
		S	t D	060	0	0	911	3515	2	724	0	00963	86	0717	1	4972	:								
		5	T D	070	0	0	738	3504	2	742	0	00790	OC.	0805	1	4921									
	1 30	0.6	S	077	1	0	644	3498	5 2	750					1	4895	,								
		S	T D	080	0	0	620	3498	2	753	0.0	00678	32	0878	1	4890)								
			T D	090			548	3498		762	0.0	0 05 92	4	0941		4078									
	130	0.6		T 0 9 7			505	3497		767						4872									
			TD	1000			499	3498		768		0 05 4 6		0998		4675									
			T O	110			479	3497		770		00528		1052		4883									
			TO	120			459	3497		772		00515		1104		4892									
			TO	130			439	3497		774		00502		1155		4900									
			TD	140			419	3496		776	0	00489	4	1204		4909									
	130	0.6	2	T148	1	0	403	3495	5	777					1	4915									

Table VI.—Continued

RENCE	SHIP					- M	ARSCIEN	ATZ	TION TI	ME	45.4.0		RIGINA		_]	DEPTH TO	MAK		 ₩ #32#Ω	A VE VA TIQ	NS.	WEA-	CLOUD			NODC
ID. NO.	CODE	LATITU		LONGIT		5 7	DUARE	1			TEAR	NO.	\$1 N	HOITA		8011D#	S'MPL"			GT PER		CODE			Ň	UMBE
-		1100	1/10	0/10/	1/10	14			0AY H		968	D15	015		\dashv	4590	15	3			31.4	Х2	6 8	1		001
1210	CS	4400	N	0410	0 #1	14					700	1				T		1 -	٠,١٠	1.	l	1	1 0 10	1	-	
							_	ATER	+	SPEED	BARC)- -	IR TEM		VIS	ND. CBS.		CIAL								
							CODE	B TRAH	DIR.	POICE	(mba			WET	000	DEPTHS	OBSERV	ATION	42							
							-	+-	34	503	38	7 10	6	072	7-	14			_							
				_		_		-	<u> </u>		٠.,			1 -	_	_	4		_					_	ī	
'	MESSENGE TIME C	CAST	CARD	, ,	EPTH G		7 10	5	./	SIGN	AA-T	ANDMA	VOLUA	it in	A. D.	SO .	OCITY	02 1	nt/I	PO4-		OTAL-P	NO3-N	NO3-N pg - at/l	\$1 O4=\$1 pg = 01/1	100
	HR 1/10	Ĭ NO.	TYPE							<u> </u>			_	'	103					,,,,	***	P# - 0171	Dg - 017	pg - ui/1	P	-
[5 T		0000		1479	35		268		0012	557	00	000		079									
	1 30	'	D85		0000		1479		993	268		0013		0.0	013		079 ' 081									
			5 T		0010		1479	35		268		0012)1 3)2 5		083									
			STI		00 20		1480		99 993	268		3012	.057	, 01	120		084									
	1 30		D85		0024		1480		993	26		0012	733		338		085									
	120		51. 085		0030 0049		1482		989	26		3012			ە رو		089									
	130		51		0050		1484		99	26		0012	836	. 00	063		089									
	130		D85		0073		1480		991	268		001.	. 0 5 4				092									
	130		51		0075		1480		99	268		0012	826	0 0	096		092									
	130		085		0098		1482		990	26						15	096									
	150		12		0100		1482		99	26		0012	949	0	128	15	097									
			5.1		0125		1484	35	99	26	79	0013	044	0.	160	15	101									
	130		0.85		0147		1485	35	994	26	79						105									
			ST	0	0150)	1485	35	59	26	79	0013	133	0	193		106									
	130)	085	T	0195		1484		993	26							113									
			5 T		0200		1483		99	26		0013			259		113									
			5 T		0250		1459		93	268		0013	353	0	326		113									
	130)	085		0294		1425		868	268							109									
			51		0300		1418		86	261		0013	115	0	392		107 080									
	1 30)	D85		0395		1296		657	26		0012			519		079									
			5 T		0400		1289		65	26		0014	. 33	, 0	,,,		040									
	1 30	•	085		0492		1141		420 40	27		0011	26	ρ η.	637		035									
	1.20		5T 085		0586		0938		172	27		0011	202		.,,		980									
	130	,	5 T		09 90		0909		15	27		0000	960	3 0	742		971									
			51		0700		0730		04	27		0001			829		918									
	130	1	085		0789		0610		970	27					/		885									
	2 30	•	5.1		0800		0601		97	27		0000	5 9 1	. 0	901		883									
			ST		0900		0531		96	27		0009			963	14	871									
	1 30)	085		0993		0478	34	950	27	68					14	865									
			5 T		1000)	0477	34	95	27	68	0009	322		019		865									
			5 T		1100)	0461		94	27		0009			072		875									
			5 T	D	1200)	0444		94	27		000			124		885									
			5 T		1300		0428		94	27		000			175		895									
			5 T		1400		0411		94	27		0004	944	+ 1	225		905									
	130)	D85	T	1481	l	0398	34	940	27	76					14	913									

D. O.	SHIP CODE	LATTU	- 1	LONGITUDE	sar	SDEN	STATION TO	T	AR		DR'S TION MBER	DEFTH TO BOTTOM	MAX. DEPTH OF S'AFL"		WAVE SERVATIONS	THEP CODE	CODES		5	NOOC TATION HUMBER	
	CE	/ / 0.0	1/10		149		03 18 1		168	D15 016	_	4645	14	32	1 2	X1	8 3			0016	
10	CS	4400	N	04100 W	147				,00			1072			1. 1.	" •	1 - 1-	l	- 1		
						WAT		VIND	8A 80		V15.	NO. 085.	SPE	CIAL							
						COLOR	TRANS DIR.	SPEED OR	M ETE		WET COD	DEPTHS	OBSERV	A HONS							
						0001	26	506	345		199 7	14			1						
							120	300	37.	1,30	, , , ,	1.	L						_	_	_
	MISSING	TZAST	CARD	DEPTH (m)	i.	T 10	5 1/	SIGMA		SPECIFIC VOLUME	ž ∆ D	so	UND	02 mU	PD == F	TOTAL-P		NO3-N	\$1.04-\$1	pН	1
	TIME HR 1/10	% HO.	TYPE				,	310 M A	-,	ANDMALT-1107	1 103	, AET	OCITY	07 1110	yg = €1/I	yg = 61/1	υg - αl/1	pg - 0t/l	µg - 01/1	,	ľ
	7 17 1V	+	ST	0 0000	1	419	3587	2684		0012208	0000	15	059	-							Т
	128	ا ا	0.85	0000		419	35872	2684				15	059		l	ı	1		1		
	100	,	5 T			421	3588	2684		0012262	0012	15	061								
			51			424	3588	268		0012322	0025	15	064								
	128	3	085			424	35878	268				15	064								
		-	5 T			426	3588	268		0012403	0037	15	066								
	128	3	085			427	35875	2682				15	069								
	•		5 T			426	3588	2682		0012477	0062	15	369								
	128	8	085		1	423	35876	2683	3			15	071								
		-	5 T		1	424	3588	268	3	0012485	0093	15	073								
	12	9	D85	0086	1	424	35878	2683	3			15	075								
		-	5 T			422	3588	2684		0012506	0124	15	076								
			5 T		1	420	3588	2684		0012539	0156	15	080								
	121	8	D85	0130	1	419	35881	2684				15	080								
			5 T		1	417	3588	268	5	0012551	0187	15	083								
	128	9	D85		1	415	35877	268	5			15	085								
			5 T	0 0200	1	412	3587	268	ō	0012667	0250	15	089								
			ST	D 0250	1	401	3584	268	5	0012806	0314	15	093								
	1.28	8	085	0258	1	1399	35834	268	5			15	094								
			5 T	D 0300	1	391	3581	268	5	0012963	0378	15	098								
	12	8	085	T0345	1	13e3	35757	268	7				096								
			5 T	D 0400	1	304	3566	269.	l	0012582	0506		084								
	12	8	D85	0432	1	253	35583	269	5				071								
			ST	D 0500	3	058	3537	2 7 0		0011045	0624		J26								
	1 2	8	D85	T0518		1059	35321	271					014								
			ST	0 0600	(0880	3515	272		0009129	0725		960								
			5.7	0 0700		711	3501	274		0007719	080		910								
	12	8	D85			0708	35006	274					909								
			ST	0800		0611	3498	275		0006656	0881		887								
	12	8	085			0535	34968	276					872								
			5.1			0533	3497	276		0005817	0943		972								
			5.1			0507	3496	276		0005621	1000		878								
			ST			0481	3496	276		0005421	1056		884								
			5 T			0454	3495	277		0005216	1109		889								
			51			0428	3495	277		0005006	1160		895								
	12	8	085	T1386	- (0405	34944	277	6			14	900								

Table VI.—Continued

ID. CODE LATIT		NGITUDE 5	MARSDEN SQUARE	STATION TH	YEAR	CRUISE STA	TION	DEFTH TO ROTTOM	DEPTH DF		WAVE ERVATIONS	THEN CODE	CLOUD		5	NODC LATION UMBER
ND.	1/10	1/10	10" 1"	MO DAY HE		+ +	MBER		S'MPL"	_	HGT PER SEA		TIPE AM	1	_	
11210 C5 440	2 N 04	401 W	149 44	03 19 1	30 1968	015 017		4645	14	30	2 3	X1	8 7			001
, ,			WA	TEN W	IND	AIR TEMP		NO.		CIAL						
			COLO		SPEED METE	R DAY	WET COD	DBS. DEPTHS		ATIONS						
			COOE	San Div.	PORCE UND		NUL 1	11								
				31	515 32	5 128 (164 7	14								
MESSENGE CAST	CARD					SPECIFIC VOLUME	₹ ∆ D	SQU	ND.		PO4-P	TOTAL-P	NO2-N	NO3-N	S10,-5	
TIME OF NO.	TYPE	DEPTH (m)	7 7	s */	SIGMA-T	ANOMALT-BIRP	I 103	. VELO		0 2 का/1	yq + #1/1	pq = p1/1	νg - n1/1	ug - 61/1	νφ = #1/I	βN
1710	STO	0000	1448	3592	2681	0012427	0000	150	16.9		+					
130	085	0000	1448	35923	2681	0012 12 1	0000	150							I	ı
100	510	0010	1452	3592	2681	0012539	0012									
	STD	0020	1455	3592	2680	0012652	0025									
130	085	0022	1456	35921	2680			150								
	510	0030	1456	3592	2679	0012704	0 0 3 6									
1 30	DBS	0045	1455	35918	2680			150								
•	510	0050	1453	3552	2680	0012732	0063									
1 30	des	8400	1447	35910	2681			150	79							
	STD	0075	1447	3591	2681	0012727	0095									
130	DBS	0090	1447	35907	2680			150	83							
	STD	0100	1445	3590	2680	0012833	0127	150	184							
	510	0125	1439	3589	2681	0012856	0159	150	86							
130	085	0137	1434	35884	2681			150	86							
	STO	0150	1426	3588	2683	0012736	0191	150	086							
130	085	10178	1412	35865	2685			150	186							
	STO	0200	1408	3585	2684	0012731	0255	150	88							
	STD	0250	1394	3582	2685	0012809	0319	150	91							
1 30	085	0271	1385	35806	2686			150	91							
	STO	0300	1378	3579	2686	0012844	0383	150	94							
130	OBS	T0360	1332	35716	2690			150	187							
	510	0400	1274	3563	2695	0012211	0508									
130	085	0448	1188	35510	2703			150								
	STD	0500	1061	3532	2711	0010747	0623									
1 30	DBS	10537	0980	35208	2717			149								
	STO	0600	0868	3512	2728	0009156	0722									
	STO	0700	0718	3502	2743	0007749	0807									
130	085	0725	06 86	35006	2746			149								
	STD	0800	0611	3499	2755	0006583	0878									
	STD	0900	0527	3497	2764	0005717	0940									
1 30	OBS	10919	0513	34964	2765		0001	148								
	510	1000	0495	3495	2766	0005553	0996									
	510	1100	0472	3494	2768	0005439	1051									
	STO	1200	0449	3493	2770	0005318	1105									
	STO	1300	0426	3493	2772	0005121	1157									
	STO	1400	0404	3493	2775	0004917	1207									
1 30	DBS	T1416	0400	34928	2775			149	9U 3							

Table VII.—Observed and interpolated oceanographic data for stations taken by USCGC ABSECON at Ocean Station DELTA, 20 March-8 April 1968, prepared from NODC listing No. 31-1238 AZ.

TEFERENCE TET ID.	SHIF	LATITU		LON			POC18	201			TION IGMT		YEA	A.R	CRUISE ND.		TIDN MBER	-	DEPTH TO BOTTOM	DEPTH OF S'MPL	1	OBSER	GTI PER	_	_ [HER DDE	COD	235		5	NDDC FATION UMBER
DE ND.		<u> </u>	1/10		_	1/10	-	10"	7*			HR,1/10				001	WHICK.	-	572	14	_	-	GI FRE	3		x 1	8				0001
311238	AZ	4357	N	041	01	H	1	149			20	134	19	0.8		_				14	1 -	٦,	-	-		^ •	0	٠,			
									WA		\vdash	WIND		A RO)- <u> </u>	I TEMI		VIS	ND. DBS.	5#1	ECIAL										
									CODE	TRAN (m)	DIR	FOR	- 1"	METE (mbe			T3.W	CODE	DBS. DEPTHS	DB2EB	VATIDI	45									
										+	26			301	111	6	094	7	14												
1	C					_		_		-		+-			SPECIFIC	VOLUM.	. \$	Δρ	SOI	JND		_	PO 4	- 6	1014	17	ND2-	N	NO ₂ -N	\$104-51	
	TIME		CA TT		DE	PTH	(m)	1	€.	1 '	*/	\$10	SMA-	-1	ANOMA	.v-x10	. DA	N. M. 10 ³	VELO	CITY	021	n1/1	pg -			61/3	vg - al		og - ot/l	µg = 01/1	ρН
	HR 1/1	0	-	T D	0	000	1	1	475	35	97	21	679	-	0012	649	_	000	150	78		_			_						1
	13		08			000			475		969		579	- 1			1		1150	378		- 1									
	1.3	-		, מז		01			475		97		579		0012	652	0.0	13	150	080											
				10		021			476	35	98	2 (680		0012	655	0.0	125	150	382											
	1.3	4	80			02			476	35	980	2 (680						150	382											
	*			rο		031		1	476	35	97	21	679		0012	754	0.0	38	150	083											
	1.3	4	08			04		1	476	35	960	2 (678						15	38C											
				T D		05		1	476	35	56	2	678		0012	881	0.0	064	150	086											
	1.3	14	0.8		C	07	2	1	475	35	972	2 (679						150	090											
	•		S	T D	C	07	5	1	475	35	97	21	679		0012	870	0.0	96		090											
	1.3	14	D8	s	C	09	6	1	474	35	959	2	679							093											
	-		S	TD	C	10	0	1	474	35	96	2	679		0013		01	128		094											
				TD	(12	5	1	475	35	96		678		0013	094	01	61		098											
	1.3	34	80	S	C	14	3	1	475	3.5	959	2	678							101											
			S	TO	(15	0	1	475	3 5	56		678		0013	170	01	194		102											
	1.3	34	08	5	10	19	1	1	475	35	964		679							109											
			S	TO	(20	0	1	473	3 5	96		679		0013			260		110											
			5	T D	(25	0	1	460	3 5	94		680		0013	278	0	326		114											
	13	34	DB	S	(28	3		452		93		681							116											
	-		5	TO	(30	0	1	431	3 5	89	2	683		0013	206	0	392		112											
	1.3	34	0.6	S	T (137	2		332		70		689							089											
			S	T O	(140	0		294		65		693		0012	458	0	521		080											
	13	34	0.8	S	(146	2		188	35	49		701							053											
			S	TΟ	(150	0		093	3	35	2	708		0011	101	0	538		024											
	13	34	D8	S	TO	155	2	-	976		520		717					_		988											
			S	0.1	(60	0	- (883		12		726		0009			741		961											
			S	TD	(70	O	-	721		00		741		0007	7941	0	828		914											
	13	34	De	S		73			0669		97		746							900											
			S	T D	(80	0	- (000	3	97		755		0006			900		882											
			S	ΤO	(90	0	- (521		96		764		0009	704	0	962		867											
	1:	34	0.8	S	T	92	θ	-	0506		95		766						14	865											
	1:	34	0.8	S		41	80		397	3	92	5 2	775	0																	

ID. CODE LATE	UDE LOP	GITUDE 5	MARSDEN	STATION TO	TEAR	DRIGIN CRUISE S	TATION	DEPTH TO BOTTOM	MAX, DEPTH OF	1	WAVE ERVATION!	- 000	CODES		S	NDDC SATION
NO. CODE	1/10	1/10 3	10" 1"	MO DAY HE	1/10		UMBER	-	5"M7L"	+	HGT PER	15.0	TITE AM	1		
238 AZ 441	6 N 04	105 W	149 41	03 27 1	73 1968	1 1 -		4572	12	34	4 2	X 2	6 8		1	000
			WA	TER W	IND BAR	AIR TEA	VIS	NO.	SPE	CIAL						
			CDLOS	TRANS DIR	OF COMP		WET COD	DEPTHS	DESERV	ATIONS						
			CODE		519 34		028 7	14								
	,			177	347 31	100.	1	I - I			-	_	Т		_	
MESSENGE CAS TIME OF NO.	CARD TYPE	DEFTH (m)	7 %	s */	SIGMA-T	SPECIFIC VOLU	o ⁷ 1 10 ³	AFLO	CITY	0 2 ml/l	PO4=P µg + e1/1	101A L-1		HO3-N HG - 01/I	SI Da-Si ve - et/l	p 2
	STO	0000	1466	3594	2679	001265	2 0000						İ	!		
173	085	0000	1466	35943	2679			150								
	STD	0010	1400	3593	2678	001275										
	510	0020	1467	3593	2677	001286	3 0026									
173	085	0023	1467	35922	2677	001300		150 150								
	510	0030	1469	3593	2677	001290	1 0038	150								
173	085	0045	1470	35933 3594	2677	001290	4 0064									
	\$10	0050	1468	35942	26 7 8 26 7 9	0012 90	4 0004	150								
173	DBS	0067 0075	1465 1465	3595	2680	001281	4 0096									
	ST0 085	0075	1466	35958	2680	001231	4 0070	150								
173	510	0100	1466	3596	2680	001285	0 0128									
	STD	0125	1467	3596	2680	001295										
173	DBS	0138	1467	35955	2680			150	98							
113	510	0150	1467	3595	2679	001307	5 0193	151	00							
173	085	T0184	1467	35948	2679			151	.05							
	STO	0200	1466	3595	2679	001321	9 0259									
	STO	0250	1463	3595	2680	001328	9 0325									
173	085	0264	1462	35950	2680			151								
	STD	0300	1450	3586	2676	001382	1 0393	151	18							
173	085	T 03 44	1415													
	STD	0400	1329	3558	2680	001366	3 0530									
173	280	0427	1286	35493	2682			150								
	510	0500	1169	3522	2684	001344	7 0666									
173	085	T 05 05	1160	35210	2685	001001	4 078	150 7 149								
	\$10	0600	0929	3503	2711	001081	4 078	149								
173	085	0653	0825	34970 3497	2723 2734	000868	6 0889									
	510	0700	0 7 56 0632	3497	2751	000701	-									
172	ST0 085	0800 10805	0627	3497	2752	000101	, 070.	146								
173	280	0900	0585	3497	2757	000651	0 103									
	STO	1000	0542	3496	2762	000611										
	STD	1100	0498	3495	2766	000571										
	510	1200	0454	3494	2770	000531										
173	085	T1230	0441	34937	2771				889							

	SHIP	LATITU	IDE L	INGITUDE	SQU	SDEN	STATION I	IME	YEAR C	DRIG1	NATOR		DEPT	DE71	H OR	WAVE SERVATIONS	WEA-	CLOUD		T	NODO
NO.	CODE		1/10	1/10	I 10*	771	MO DAY			NO.	STATIC	ER.	BOTTO			[HGT PER] SE		TYP: AM	1		NUMBE
238	ΑZ	4355	2N 0	40598W	149	30	03 28	187 1	968	016 00	3		457.			3 3	X1	66		_	000
						WA		WIND	BARO.	AIR TE	MP T		NO.	T'	ECIAL		'		,	1	
						COLOR	TRANS DIR	SMEED D3	(mbs)	BULB	BUL.	COC	DEPTH	OBSE	VA TIONS						
						_	22	505	366	106	07		14	+							
[MESSINGE	CAST	CARD	T	Т		1	1	Ή.			\$ A C	1				_				1
	### 0 HR 1/10	NO.	TYPE	DEPTH (m	1 1	₹	\$ %.	SIGM	4-1 '	ANDMALT-S	197	¥ ∆ C DYN. A x 103	4. VI	LOCITY	02 ml/l	PO4-P	TOTAL -P	NO2-N	NO3-N	\$1 O4-	
ř	77.10		510	0000	1	461	3594	268	0	001254	2	0000	110	0.72		1 -		-	PQ - 0.0.	74	4
Į	187		085	0000		461	35944	268		001234	2	0000		5073 5073	l	1 1		l			
			STO	0010		460	3595	268		001254	а	0013		075							
			STO	0020		459	3595	268		001255		0025		076							
	187		085	0025		459	3594€	268						077							
			STO	0030	1.	458	3595	268		001256	4 (0038		077							
			510	0050	1	456	3595	268		001257		0063		080							
	187		085	0051	1	456	35946	268	1					080							
			510	0075	14	460	3596	268	2 (001264	8 (0094	15	085							
	187		DBS	0076	1	460	35957	268	1				15	085							
			STD	0100		458	3594	268	1 (001281	2 (0126	15	980							
	187		085	0101		458	35935	268					15	089							
			510	0125		459	3594	268		001289		0158	15	093							
			STD	0150		59	3594	268		001298	1 (0191		097							
	187		085	0151		459	35945	268						097							
			510	0200		458	3594	260		001311	0 (0256		105							
	197		085	T0202		+58	35935	268						105							
			STD	0250		+57	3593	268		001330		0322		113							
	187		085	0300		456 456	3593 35926	268		001346	9 (3389		121							
	101		SID	0400		343	3584	268		201200				121							
	187		085	10404		338	35829	269		001205	2 (0516		099							
	101		STD	0500		196	3558	270		001133		3433		098							
	187		D85	0506		185	35562	270		201133	0 (0633		063							
	-01		STD	0600		986	3537	272		000929	0 /	736		002							
	187		085	T0610		166	3548P	274		,,,,,	•	,,,0	15	002							
			510	0700		778	3520	274		000733	3 (820	14	939							
			510	0800		25	3508	2761		000611		887		894							
	187		085	0808		15	35077	276			- `			891							
			SFD	0900		554	3504	276		00557	9 (945		881							
			510	1000	0.5	00	3500	276		000528		000		875							
	187		0.85	T1012		94	34991	277						875							
			SID	1100	04	78	3499	2771		000517	0 1	052		883							
			5 T D	1200	04	60	3499	2773	3 (000506	3 1	103		892							
			STO	1300		43	3498	2775		000495	2 1	153		902							
			510	1400		25	3498	277		000483		202	14	911							
			510	1500		07	3498	2771		00471	5 1	250	14	920							
	187		082	T1516	04	04	34975	2778	3				14	922							

ENCE	SHIP				E 5	MAR	SDEN		ION TH			0	RIGINA	TOR'S	T o	EPYH	MAK		WAVE		WEA-	Cront	I		NODC
ID. NO.	CODE	LA TITU		LON	VGITUDE B		JARE		GMI		AR	CRUISE		ATION	1	TO TTOM	DEPTH	0.	SERVA TION		THER	CODE		\$	TATION
1238	ΑZ	4345	1/10 N	0.6	103 W	10°	1,	_	N YAC	_		NO.		JMBER	+-		S'MPL		HGT FFE	-	CODI	TYPI AN	1		UMBER
420	AL.	4040	IN	04	102 M	149	4			85 1 9	908		004		4.5	72	13	24		8	X 1	8 6		1	0004
							WA	_	1	SPEED	BAPO)+	IR TEM	v		NO.		CIAL							
							COLOR	TRANS	DIK.	FORCE	METE			WET CO	DE	PTHS	OBSER	V.A. TION S							
								 	22	\$20	092	2 12	4	090 7	1	4									
								+		020	<u> </u>				-	7			_	_					,
	MESSENG	U NO.	CAR		DEPTH (m)		t	5	٠/	SIGMA	-1	SPECIFIC ANOMA			D.	sou		02 ml/l	PO 4~2		TALEP	NO2-N	NO3-N	\$104-5	pH
	HR 1/10			_										x 10	3	AFFO	CITY		yg + 41/	" "	1 - 41/7	⊌g - at/l	µg - n1/i	μg + αl/	J 19
				10	00 00		499	360		2676		0012	932	000	0	150	186								
	18	5	D85		0000		499	359		2676						150			1	'			1	1	
				0	0010		459	359		2675		0013		001		150									
	18	e	085	0	0020		499	359		2675		0013	088	0.02		150									
	19	,		F D	0020		499 501	359		2675		2012				150									
	185	5	065		0030		502	359		2675		0013	161	003		150									
	10	,	S 1		0050		501	360		2676		0.01.3	1 2 3	0041		150									
	185	5	089		0065		499	360		2677		0013	123	006		150									
			51		0075		489	35		2677		0013	001	009		150									
	185	5	089		0086		478	359		2678		0013	0,1	0031		150									
			51	0	0100		471	359		2677		0013	154	013		150									
			SI	0	0125		451	358		2677		0013		016	_	150									
	185	5	085	ŝ	0131	1	445	358	55	2677						150									
			ST		0150	1	410	357	Q	2679		0013	065	0197	7	150	79								
	189	5	085		10174		381	357		2681						150	173								
			ST		0200		369	357		2662		0012		0262		150									
	7 11 1	-	51		0250		403	358		2684		0012	958	032		150									
	189	,	089		0260		406	358		2684						150									
	165		085		0300		378	357		2685		0012	990	0392		150									
	10:	,	51		0400		354 344	357 357		2686		0013	170	25.5		150									
	185	5	085		0422		321	356		2685		0013	170	0523		150									
	185		085		F0459		103	353		2703						150 150									
	• • •	-	ST		0500		107	353		2703		0011	572	0646		150									
			5 1		0600		945	352		2723		0007		0753		149									
	185	5	085		0544		877	351		2730		000,	, 0,	015.		149									
			ST	0	0700		787	351		2740		0008	133	0842		149									
			5 T	D	0080	0	552	350		2753		0000		0917		149									
	185	5	085		T0824		624	350	09	2755						148									
			\$ F		0900		593	350	0	2759		0006	367	0984		148									
			SI		1000		551	350		2763		0005	977	1045		145	46								
			ST		1100		510	349		2768		0005		1103		148	96								
	100		ST		1200		469	349		2772		0005	210	1157		148									
	185)	UR2		11279	04	436	349	74	2775						148	95								

ID.	SNIP	LATITUL)€ 1/10	LON	GITUDE '1/10	DADE 14	MAI 501	SOEN JARE	1	ON TIN	Y	EAR	CEUIS	ORIGIN E	STATII NUMI	ON.	06FTH TO 80TTON	MAX DEPTH OF S'MPL'	1	WAVE ERVATI			1198	OUES OUES		5'	NOOC MATION UMBER
		4 25 2		0.61	351 W	\vdash	149	-				368	016	00	5		4572	12	2.7		4	×1	8	5			0005
2 4 3	ΔZ	4353	N	041	J J L W				TER		IND		-	AIR TE	MP ?	c T	NO.			, i							
								_	18ANS	-	SHID	METE		DRY	w		0.05	DRSEE	CIAL VATIONS								
								COOE		DIR	PORCE	(mbs)	_	BULS	61)	_		<u>. </u>									
										29	515	132	2 1	117	0.8	33 7	14	<u> </u>		Ĺ							_
	MISSINGI	CAST	C.A.		DEFTH	lm i		7 "C	5	٠/	SIGMA	X-1	SPECH	ME (9-1	UMI 10 ⁷	₹ △ D 0YN. M x 103	VEL	OCITY	02 ml/	PO.		10141-1 10141-1			NO ₃ =N μ <u>μ</u> - αt/1	\$1 O4 = \$1 µg = 41/1	ρН
	HR 1/10	-	c	10	000	0	1	514	361	04	267	6	00	1291	9	0000		091									
	20	,	08		000			514		044	267							091		,							
	20	,		TO.	001			1514	361	04	267	6	00	1298	10	0013		0+3									
				TO	002			514	36	04	267	6	00	1301	. 1	0026		094									
	20	7	0.8		002			1514	36	038	267	6						095									
				TO	003	0		1516	36		267		00	1306	9.8	0039		096									
	20	7	0.8	5	004	4		1518		039	267					0.07.5		100									
			5	10	005	0		1512	36		267		00	1320) (0 06 5		096									
	20	7	0.8	5	006			1498		985	267		0.0		- 0	0098		097									
				TO	007			1495	35		267		00	1329	90	0070		097									
	20	7	0.6		008			1490		960	267 267		0.0	1330	20	0132		098									
				TO	010			1486 1478	35 35		267			1332		0165		099									
		_		TO	012			1476		933	267		00					099									
	20	,	0.6		015			1402		75	267		0.0	1319	94	0198	1 1 5	076									
	20	,	0.8	TD	TO1 7			1343		601	267						15	059									
	20	1		TO	020			1325		58	268	1	0.0	130	11	0264		057									
				TO	025			1294		55	268	15	0.0	127	5 1	0328		054									
	20	7	0.6		025			1293	35	551	268	5						054									
	20	•		TD	0.30			1305	3.5	66	269	1	0.0	123	29	0391		068									
	20	7	0.6		T032	29		1312	35	692	269						_	5075									
			9	TO	040	00		1264		62	260		00	120	98	051		5070									
	20	7	08	3.5	041	15		1246		597	269							5066 5024									
	20	7	0.6	3.5	T 04 9			1092		376	271				00	0628		5023									
			5	0.1	050			1090		37	271			0109 0093		072		4967									
				0.13	060			0898		16	272		U	1073	77	012		4944									
	20	7	01		064			0821		089	2 7 3		0.0	076	40	0.81		4912									
		_		510	070			0716		964	275		01	,,,,	7.0	001		4878									
	20	7		BS	107			0599	_	96	275		0.0	0064	70	0889		4878									
				STD	080			0548	-	96	276			0000		094		4878									
				STD	100			0507		96	270			0056		100		4878									
				STO STO	110			0466		96	27			0051		1 06	0 1	4878									
	20	7		85 85	T11			0437		963	27			-			1	4878									
	20	1.7	U	0.3	111																						

FERENCE IO.	SNIP		ATITU	DE	LON	GITUOE	£ 8	M A B S I	DEN RE	STATION	TIME	71	EAR	CRUISE		ATION	-	DEPTH TO BOTTOM	MAX. DEPTH OF	_ ~	HSERV	VE A TIONS	- 1	WEA- THER CODE	CODE	1	5	NODC TATION REFMU
IO. NO.	CODE	1 3		1/10		1/10		10*	1"	MO DAY	HR,1/1	0		NO.	N	UMBER	-+		3 4016 3	_	_	1 128 1	15.0				-	0006
11238	ΔZ	4	355	$\overline{}$	040)525W		149	30	04 03	216	1 9	358	016	006		1	4572	12	32	2		4	× 1	8 6	1		0000
11230	M.E	1 7	,,,	,,	• • •	, , , ,	1 1		WA	TER T	ONIW	4-7	BARO	. ^	IR TEN	7 1	Ī	NO.	5.06	CIAL	٦.							
								1	COLOR	TRANS DU	199	10	METER	. 0		WE1	CODI	OBS.	OBSERV	A TON	15							
									CODE	GM I	10	∎C t	[mbs]	_	-	811.8	-		-		4							
										3.	51	8	150	11	6	100	7	14			Ц.,		-					
				CA				_			Π.			SPECIFIC	VOLUE	41 E	A D	so	סאט	0,7		PO 4=7		1AL-F	NO2-N	NO3-N		
	MESSE	9	A ST	EA EY		DEPTH	(m)	7	t	5 %.	1 ,	IG M A	\-T	ANDMA	11.4-111	, i	103	VEL	OCITY	-,		yg - 41/l	P1	g - a1/1	µg - α1/1	μg − el/l	PH - 01/	1
	H 8 1/	10	_	-	7.0	000	0	1.4	•96	3601	-	67	7	0012	810	0 00	000	15	085				Т			ĺ		
	١.				10	000			96	3600		67							085		,		,					
	2	16		. 08	7 O	001			68	3598		67		0012	871	0.0	013	15	084									
					TO	001			481	3595		67		0012			026		063									
	,	16		08		002			478	3593		67							082									
	2	10			TD.	003			476	3593		67	6	0013	3046	5 0	039		083									
	2	16		DB		004		1	466	3590	4 2	67	6						082									
	~	10			TO	005		1.	459	3589	- 2	67	7	001	304	6 0	065		080									
	2	16		0.8		006		1	442	3585	9 2	67	8						077									
	-	• •			0.1	007	15	1	440	3585		267		001	302	1 0	097		078									
	7	16		0.8	S	009	0	1	436	3584		267				_			079									
				5	TO	010	0		435	3584		267		001			130		080									
				5	TO	012	2.5		432	3584		267		001	301	, 0	163		084									
	2	16		0.8		013			431	3583		267		001	317	0 0	196		086									
					TO	015			430	3584		267		001	314	0 0	1 90		090									
	2	16		0.6		1018			427	3583		267 268		001	ana	0 0	261		083									
					TO	020			397	3577 3563		2 6 6 2 6 6		001			326		065									
					10	025			323 296	3558		268		001		•	,		059									
	4	216		0.6	35 310	026			244	3550		269		001	231	6 0	388	B 15	045									
		. 1 4		0		035			176	3540		269						15	030									
	4	216			5 T O	040			172	3541		269		001	184	8 0	50	9 15	036									
		216		D.		044			138	3542	ı	270)5						031									
					STO.	050		1	037	3528		271	3	001	061	7 0	62		5003									
		216			85	105	29	C	987	3522	2	271	. 7						+989									
					STO	06		0	859	3511		272	9	000	908	5 0	721		+952									
		216			85	06		C	722	3501		274							4914									
					sto	07	00		716	3501		274			779	-	80		4912									
					S T 0	08			621	3499		275		000	672	2 (007		4891 4882									
		216			65	90)577	3498		279		000			94		4877									
					5 T O	09)545			270)585)525		99		4871									
					STD	10			14.89			270			1525 3491		04		4872									
					STO	11			0452			27)4 81		09		4882									
					STO	12			0435			27		301	,-01				4887									
		216		Q	85	112	31	(0433	349	4	21	• 2					•										

														_	_	,			
REFERENCE	SHIP	LATITU	NE	AGITUDE EX	MARSORM	STATION THE	ME YEAR	ORIGINATI			MAX. DEPTH	Obse	NAVE EVATIONS	WEA-	CLOUG			ooc	
CTHY ID.	CODE	CAINO	1/10	AGITUDE P					TION ABER	4077014	OF MPL'S		GT FEET SE	CODE			, N	MER	
	4.7	1313	_					+		3		\rightarrow		-	TIPE AM	-			
311238	AZ	4349	N 0+	048 W	4		98 1 968			4572	16	25		3 X1	8 6	1	- '	1007	
					WAT	-	IND BAR		ZIV	NO.	SPECH	.							
					CODE	TRANS DIR	OF UNB		ULB COD	OEFTHS O	AVESCEC	nans							
					0001	27	S18 22		78 7	14									
				,	!	- '	310 22	0 1111 0	10 1	17									_
	MESSENGE	CAST	CARD	DEPTH (m)	3.1	\$ %	SIGMA-I	SPECIFIC VOLUME	₹ ∆ O	SOUN		12 ml/1	PO4-P	TOTAL-P	NO2-N	NO3-N	5104-51		15
	HR 1/10	i NO	TYPE	DEPTH WILL	, .		310 85 - 1	ANOMALT-110	x 103	VELOC	TITY	rg mizi	µg = €1/3	VB - 01/1	up - at/1	yg + α1/1	⊌g - e1/l	pН	č
			STD	0000	1450	3589	2678	0012739	0000	1506	59								+1
	198	3 1	OBS	0000	1450	35886	2678		1	1506						'			1 1
			SID	0010	1450	3588	2678	0012821	0013	1507									
			STD	0020	1451	3588	2678	0012857	0026	1507	72								
	198	3	085	0027	1451	35874	2677			1507	74								
			510	0030	1451	3588	2677	0012932	0039	1507	74								
			STO	0050	1452	3588	2677	0012972	0064	1507	78								
	196	3	085	0052	1452	35680	2677			1507	78								
			STO	0075	1452	3588	2678	0013027	0097	1508	82								
	198	3	085	0079	1452	35884	2678			1508	82								
			SID	0100	1449	3589	2679	0012995	0129	1508	85								
	198	3	088	0105	1448	35890	2679			1508	86								
			510	0125	1448	3590	2679	0012993	0162	1508	89								
			STO	0150	1449	3591	2680	0013005	0194	1509	93								
	198	3	085	0157	1449	35911	2680			1509	95								
			510	0200	1321	3563	2686	0012591	0258	1505	56								
	198	3	OBS	T0208	1304	35593	2686			1505									
			510	0250	1294	3560	2689	0012386	0321	1505									
			STO	0300	1281	3561	2692	0012197	0382	1505									
	198	3	085	0312	1278	35617	2693			1506									
			STO	0400	1167	3547	2704	0011338	0500										
	199	3	085	T0414	1145	35439	2705			1502									
			\$10	0500	0975	3524	2720	0009841	0606	1498									
	198	3	085	0515	0948	35210	2722			1497									
			STO	0600	0837	3515	2735	0008441	0697	1494									
	198	3	085	0620	0811	35139	2739			1493									
			510	0700	0698	3507	2750	0007087	0775	1490									
	100		\$10	0800	0591	3501	2759	0006159	0841	1487									
	198	,	085	0828	0568	34999	2761	0005450	2000	1487									
			STO	0900 1000	05 38	3500 3500	2765 2769	0005658	0900										
	198			T 10 37	0501	34995		0005299	0322	1487									
	148	3	085		0469	3499	2771	0005046		1487									
			ST0	1100 1200	0470 0444	3499	2772 2775	0005048	1007										
			STO	1300	0423	3499	2777	0004811	1104	1488									
			510	1400	0423	3498	2778	0004709	1150	1489									
			STD	1500	0397	3497	2779	0004595	1196	1491									
	198		085	T1604	0392	34964	2779	000 1 028	1170	1493									
	190	,	003	.1004	0372	J 7 7 0 4	2117			1473	, .								

ENCE	HIP	LATITUE	. T	LONGI	11104	. 2	MAR!	DEN	STATE	AIT NC	AE .	TEAR		NGINA			DEPTH	MAL.	_		VE A TIONS	WE		CLOUD			NOOC
	300	AIIIU	1/10	LONG	1/10	DOM:	10"			AY HE		LAK	NO.		UMBER		TO MOTTOM	0.6	1 "		FREE 3	0.01	ar I	COGES		2	LATION
_	AZ	43580		0410	HDIC	1	149	+	\rightarrow	7 1		968	\rightarrow	008		-	4572	15	24	-+-	3	X 2		6 8			000
			,,,	0 11	010.			WA			ING			IR TEM		,	_	1.		71.	-	" •	- 1	0 10	1		000
								COLON	\rightarrow		SPEED	METE			WET	CODE	NO. OBS.	SPE	CIAL								
								COOE	Imi	DIR.	POICE	(mbel			BULB	CODE	DEFTHS	082684	A IION	1							
										32	\$15	166	0.8	19	061	7	14			1							
m2	SSENGE	CASE	CARD				П		\Box		ì	1	SPICIFIC		. 5	Δα	T	UND		ή.							
	HAI of		TTPE		DEPTH I	m1	1	°C	2	·/	SIGM	A - T	ANOMA	LT-810	יי סיי	200		DCITY	03 4		PO4=P 4 = 01/I	TOYAL-		02-N - el/l	NO3-N up - et/l	51 Q 4 - Si us - e1/1	g H
н	1/10	-	ST	0	0000	1	1	427	358	7	268	2	0012	4.0.1	_	000	150	26.1		+			+	-		-	-
	165	- 1	085		0000			427	358		208		0012	407	01	,00	150						ŀ	i		l	1
	100		ST		0010			426	358		268		0012	428	0.0	2 10	150										
			ST		0020			425	358		268		0012			025	150										
	165		085		0025			425	358		268		3016				150										
			ST		0030			426	358		268		0012	452	00	37	150										
			ST		0050			429	358		268		0012			06.2	150										
	165		085		0054			4 30	358		. 68						150										
			ST		00.75			422	358		268		0012	57	0 0	94	150										
	105		085		0071	3		421	358	58	268						150	072									
			ST	0	010)	1	412	358	3	268	2	0012	667	01	25	150	072									
	165		085		0106	5	1	437	358	14	268	2					150	072									
			ST	D	0125	5	1	371	357	1	268	1	0012	788	01	57	150	062									
			5 T	D	0150)	1	339	356	3	268	2	0012	807	0	89	150	054									
	165		085		0154	4	1	336	356	24	268	2					150	354									
			ST		0200			336	35e		268		0012	734	02	253	150										
	165		085		10205			3 36	350		268	4					150										
			21		0250			284	355		268		0012	662	0	316	15										
	165		08\$		029			220	354		269				_		150										
			ST		0300			216	354		269		0012	296	0.	379	150										
	165		085		10387			071	352		270						149										
			SI		0400			038	352		270		0010	1991	04	95	143										
	165		085		0478			677	349		2.71		0.00	0.56			149										
			S T S T		0500			804	349		271		0009			00	144										
	145		085		0609 10679			805	349		272		0009	45/	U	97	14										
	165		51		0700			761 707	349		273		0008	110	0	785	149										
	165		08\$		0754			608	350		275		0000	102	. 0	100	14										
	100		5.1		0800			5 b 7	350		276		0006	.1.0		356	140										
			51		0900			545	349		276		0005			715	148										
			ST		1000			507	349		276		0005			772	148										
	165		085		T104			450	34.9		276		0,000	7 7 (, 0		148										
			ST		1100			474	349		277		0005	241	3 (02.6	148										
			ST		1200			445	349		277		0005			77	148										
			ST		1300			- 20	349		277		0004			27	140										
			5 T		140			400	349		277		0004			75	14										
	105		085		T 1 + 70			389	349		277						149										

Table VII.—Continued

47.72	SHIP	LA 111 U	٠, ا	ONGITUDE	100	MARSDEN	STATION TI		EAR	ORIGINA		DEPTH	MAK. DEPTH	D.	WAY		WEA		1		NODC
NO.	CDDE		1/10	1/10		10" 1"	MO I DAY IH			CRUISE ST	ATION JAMBER	ID ID	OF S'MPL'S	O IL		TIONS	THER				TATION
1238	AZ 4	+400		14 3 5 3 0 W	+-+	149 40		28 1	968	016 009		4572	16	30	1	X 312	+-	8 5	1		0009
	[1 1	WA		IND F	_	1 410 7644	F T	-	1.0			^	1	1013	I	- 1	000,
						COLOS	TRANS DIR.	SPEED	METE		WET COD	2 UIS.	SPEC DBSERV								
						CODE	OW 2	FORCE	lmba		MULM .	DEPTHS	UFJUNT	- MONS							
							28	S2 0	180	100	067 7	14									
[.	MESSENGE	CASI	CARD				T	T		SPECIFIC VOLUM	E Ž ∆ D	sou	IND.		1.		101AL-P				T
	HR 1/10	NO.	TYPE	DEPTH	(m)	7 17	5 %.	SIGMA	-1	ANOMALY-EID	DYN. A	A. VELO		03 m1/1			44 - 01/1	NO2-N	ND3-N ug - e1/1	\$1 Oa-\$1	
f			STD	000	0	1427	3592	2686	5	0012005	0000		162			-	_	-			+
- 1	128		085	000		1427	35922	2686		00111003	10000	150				1					4
			STO	001	0	1420	3592	2000		0012029	0012										
			STD	002	0	1425	3592	2686		0012038	0024	150	065								
	128		085	002	7	1424	35918	2686	5			150									
			STO			1424	3591	2686		0012116	0036										
			S T 0			1422	3590	2685		0012216	0060										
	128		085	005		1422	3589€	2685				150)69								
			STO			1418	3590	2686		0012241	0091										
	128		085	007		1417	35874	2686				150									
			STD			1405	35 € 7	2687		0012224	0122										
	128		085	010		1404	35865	2686				150									
			STO			1357	3587	2688		0012186	0152										
	128		STD			1390	3586	2689		0012124	0163										
	120		DBS STD	015 020		1390 1388	35864 3586	2689		0012252	0243	150									
	128		085	T 02 0		1388	35860	2689		0012253	0243	150									
			STO			1384	3584	2689		0012459	0305										
	128		085	029		1357	35784	2690		0012437	0303	150									
			STO			1348	3576	2690		0012434	0367										
			STO			1183	3550	2703		0011388	0487										
	123		085	1040		1181	35501	2703			5.07	150									
	128		085	047		0988	35265	2720				149									
			STO	050	0	0946	3522	2723		0009500	0591	149									
	128		085	T059	3	0797	35083	2736				149									
			2 T D		0	0786	3508	2738	3	0008163	0679	149	24								
			STD			0652	3502	2752		0006794	0754	148	887								
	128		OBS	07 b		0568	34991	2761				148	367								
			STD			0557	3499	2762		0005845	0817		165								
			STD			0504	3497	2767		0005415	0874										
	. 20		STD			0460	3496	2771		0005031	0926										
	128		085	1100		0458	34956	2771				148									
			STO			0447	3496	2772		0004998	0976										
			STD			0436	3496	2773		0004950	1026										
			STO			0424	3496	2775		0004897	1075										
			STO	150		0412 0401	3496 3496	2776		0004834	1124										
			310	1,00	•	0401	J470	2111	r	0004773	1172	143	10								

Table VIII.—Observed and interpolated oceanographic data for stations taken by USCGC COOK INLET at Ocean Station DELTA, 14 April–5 May 1968, prepared from NODC listing No. 31–1241 CO.

SNIP	LATITUE		NGITUDE DE	SOU	ARE	STATIO	ATI	7	EAR	CRUISE NO.		LTOR'S LATION UMBER		DEPT	OFF	TH D	WAVE BSERVATION		88	CLOUD CODES			NODO STATIO NUMB
+		1/10	1/10	10"	1	MO DA	Y HR.1			-	+		-			_	1	36.4	-		+	-	
. (1) 4	4407	N 0+	115 -	145		04 14			300	017				+75	5	35	2 6		1	8 1	1	1	000
					WAT	-	WIN		BARC)• <u>} </u>	AIR TEA		VIS	NO.	5	PECIAL	1						
					CODE	Z Z AART	UR,	04	METE		DRY	WET	CODE	O#5.	S DASE	RVATION	5						
					-		_	10	3.05	+	04	009	-	14	+	-	1						
				1	_	<u> </u>	2 2	13	100		_	_	_	1			1	1	Т				Т
MESSENGE TIME of HR 1/10	CAST NO.	TYPE	DEFIN (m)	,	٦	5 */	.	SIGMA	1-1	ANOA	C VOLU	,, 0	1 103	· VI	LOCITY	03 ml	/I PO4-P	10147		NO2-N 99-01/I	NO3-N V0 - 01/L	\$1 D4= µg + al,	
		STO	0000		+11	3589		2000	ь	301	190	7 0	000		5055				-				
131		OHS	000)		411	3583		264							5056								
		STD	0010		4 02	3538		* DQ;			150		011		5055								
		STĐ	0020		308	3587		268		001	179	, 0	023		5055								
191		2 PC	9036		354	?5€7		250							5055								
		STO	0030		395	3557		502			151		035		5056								
		STD	0050		399	3583		2541		001	192.	3 0	059		5000								
141		08.5	00-1		309	3587		2581					0.00		5061								
		510	0075		3 16	3538		268		001	192	• 0	089		5064								
1 = 1		OHS	0074		396	3587		200		202	223				5064 506 7								
		STO	0100		395 395	35 b7		2661 2691		101	201	• 0	119		506B								
101		OBS	01.03		3 - 7 3 - 7	3587				001	212		149		5072								
		SID	0125 0150		300	3587		26H) 26H)			222		179		5077								
191		STO GBS	0156		367	3587		2561		001		, ,	117		5078								
141		S T D	0200	_	400	3538		258		001	237		241		5085								
191		082	T0208		400	3587		2581		001	231	, ,	271		5087								
1 71		510	3250		398	3586		268		001	259		303		5033								
		510	0300		201	3579		2691			248		366		5088								
191		DE S	0312		346	35.76		204							5085								
1 . 1		STD	0-00		159	3545		270		001	129	, 0	485		5032								
191		065	T 0+1		117	3539		270							5020								
		STO	05.0.1		932	3517		272.		000	1963	5 0	589		4963								
191		08.5	0520		882	3511		272	c.					1	4948								
		510	0600	0	700	3498	ı	274	2	0.00	762	5 0	676	1	4889								
191		085	T0623	0	658	3499	2	274	5					1	4876								
		510	0700	U	c 0 2	3496		275	4	000	1652	3 0	746	1	4860								
		STD	0600	0	544	3497	,	276	2	000	577	3 0	808	1	4860								
191		08.8	0942	0	524	3497	9	276	5					1	4859								
		STO	0000	0	508	3498	9	.75	7	000	1536	7 0	864	1	4862								
		STO	1000	0	463	3499	,	2 7 7	1	000	511	0	916		4869								
191		DRS	T1067	0	400	3479	2	277	3						4873								
		STO	1100	0	4c1	349		277			1493		906		4876								
		STO	1200		441	3435		277			1484		015		4884								
		STO	1300		423	3457		277			477		063		4893								
		STO	1400		408	3498		277			473		111		4904								
		SID	1500		395	3499		277.		000	471	5 1	158		4915								
191		D8 S	T1602	0	394	3494	4	277	8					1	4928								

SHIP			- =	MAR			ION TI				DRIGIN	ATOR'S		DEPTH	MAI		WAV		w	EA-	CLOUD			NDDC
ID. CODE	LATITUE		ONGITUDE BY	200			GMTI		TEAB	CAU		STA TIO	4	BOTTOM	01		SERVAT		- CD	ne L	CODES			NOITATE RESEMBE
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MESSENI TIME NR 1/1	of NO.	CARD	DEPTH (m)	7	70	5	٠/	SIGM	A _ !	SPEC	IFIC YOLU OMALT-TI		≨ △ □ 01N. W x 103		OCITY	D2 ml/		4-P	101AL		NO3-N ug - at/1	NO3−N µg - m/l	\$104~\$ ug - 01/	
		STD	2000	1	357	35	3.0	208	i,	0.0	1203	4 (000	15	Ŭ47					1				
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ERENCE				L:	- N	ARSDEN	STATE	DN TI	ME			DRIGINA	101'5		DEFTH	MAI		WAVE	we	4 .	CLOUD	1	T	NOOC	1
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NO		1/10	-	1/10	+	0, 1,	MD D	AY HE		_	NO.	_	UMBE	-	101107	S"MPL	'S DIR.	HGT 710 31	• 00	J	TYPE AMI	1	_	NUMBER	1
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	MESSENGE TIME 0	E NO. TY	10	DEPTH (m)		1 %	5	/	SIGMA-	-T SP	HOM	ALT-TIO	;' ;	E A D	50	DCITY	02 mt/l	PO ₄ =P	IOTAL-		402-N	MD3-M	\$104-5		5
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	• • •		TO.	0200		1360	35 s		2692	O.	011	1995	u	235		072									
	129	OH:		T0210		1350	355		2592							073									
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			10	0300		1267	356		2097	0	011	1751	0	355		055									
	129	08		0313		1248	350		2698							050									
	1.20		TD.	0400		1073	353		2710	0	31.	1695	O	467		330									
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			ťρ	0600		0702	34,		2742	0	007	1672	0	651		890									
	123	08	S	T0621		0676	349	57	2745							883									
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		\$1		1300		0411	349		2776			754		037		888									
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		S 1		2000		0356	349		2750	0.0	004	822	1	369		988									
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	152	OB 5		2910		0310	3450		2755							120									
		S 1		3000		0304	349		2786	01	004	625	1	846		133									
	152	089		3414		0275	349.		2757							194									
	152	08.5		13929		0245	349		2769		001	3000	-	207		270									
	152	51 0= 5		4000 4368		0244	349		2789	01	UU4	388	2	297		282									
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				. + + > +		0667			2170						10.	336									

EFERENCE SHIP	LATITU	DE LO	vGITUDE 3	MARSDEN SQUARE	STATION T		YEAR		MOITA	DEPTH TO ROTTO	OF		WAVE ERVATION:		WEA- THER CODE	CODES		51	NODC TATION UMBER
OB NO.		1/10	107 4	149 31	MO DAY H	37 1	ar e	017 004	UMBER	4572	N S'MPL'	S DIR	HGT RIF S	3	X1	6 7	-	-+	0004
311241 CO	4302	N J4	104 W.			DNIN	FARC	4 10 17 1		NO.		CIAL	į į	۱ د	×1	017	1	,	0004)
				con	R TRANS DIR.	SPEED OR FORCE	METE (mbs		WET CO	OE DEPTH									
					09	506	17	3 150	136 7	14	1								
MESSENGI TIME	CAST	CARO	DEPTH UM1	1 70	5 %.	SIGN	1-AA	SPECIFIC VOLUM	AF SYN.	o so	DUNG	0 2 ml/1	PO ₄ ~P			N02-N	NO)-N	5104-5	gH
HR 1/10		TYPE			+	-			N 10	Vil	TOCITA		ug - 01/1	111	- 1071	µg − #1/1	ug - 61/5	yg - al/l	-
13	,	SID	0000	1408	35854	265		0012120	1000		055		1					l	l
1.5	'	STD	0010	1402	1000	260	± =	0012014		2 15	055								
13	,	0 H S	0020	1379	3565 45655	266		0011980	002		055								
1.5	'	SID	0030	14.31	35 no	266	7	0012018			358								
13	7	STD	0050 0052	1410	35480 35480	269		001211	006		064								
1.5	1	SID	0075	1402	3567	255		3012141	339		056								
13	7	DRS	0079	1+01 1372	35363 3584	26s		0012230	012		066								
1.3	7	OR S	01 03	1371	35832	266				1.5	060								
		STO	0125	1376 1364	35 e 1 35 e 0	269		0012137			065								
1.3	7	085	0155	1362	35747	2 5 9		0012070	, 019		005								
13	7	ST0 08 S	0200 10210	1358 1353	3580 35788	269		0012120	024		071								
1.4	'	STO	0250	1315	35 7 2	20:	÷3	0011987		2 19	064								
13	7	STD	0300	1245 1222	3560 35563	209		0011604	036		047								
		STU	0 - 00	1007	3523	271	14	0010275	047	0 14	975								
1.3	7	OH S STO	05 00	J976 0368	35187 3512	271		0006946	050		1766								
13	7	08.5	0521	0841	3510B	273	3.2			1 -	932								
13	7	S T D OBS	0600 10626	0731	3505 35031	274		0007585	064		902								
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1 ?	7	STD 08 S	0500 0545	0559 0532	3500 34994	276 276		000580	7 078		863								
4.7	1	SID	0.400	05.09	3457	276		000533	3 083		863								
	7	SID	1000 T1065	0473	34 ±8 34 ±78	277		0005027	7 088		1866								
1 7	1	08 S \$ T D	1100	0452	3498	2 7 7		0004790	093		868								
13		5.10	1200	0+17	3+97	277		0004626	0.98		874 883								
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13	7	S T D S T O S T O	1300 1400 1500	0335 0378 0377	3475 3474 34936	271	78 79 79	0004530 000450 000455	103 107 112	5 14 2 14 14	+894 +908 +926	. [WAVE.			CLOUD			
	7 LATITU	STD STD STD OR S	1300 1400 1500 T1517	0335 0375 0377	3475 3474 34930	277 277 277 277	78 79 79	0004530 000450 000455	103 107 112	6 14 2 14	894 908 926	0115	WAVE ERVATION INGSTEET		WEA- THER CODE	CLOUD		1 5	NODC !ATION !UMBER
1 3		STD STD STD ORS	1300 1400 1500 T151)	03 35 0373 0377	3475 3474 34930 STATION I IGMII MO GAY	271 271 271 271 271 171 171 171 171 171	78 79 79 79	0004530 000450 0004559	0 103 7 107 9 112 ATOR'S TATION HUMBER	DEFTI 10	894 908 920	0115	WAVE ERVATION HGF FER		THER	CLOUD CODES	1	5	TATION
1 3 REFERENCE SHIP THE TO. CODE NO.	LATITU	STD STD STD ORS	1300 1400 1500 T151)	03 35 0373 0377 0377	51475 3474 34930 STATION 1 IGM1 MO QAY 1 34 1 9	277 277 277 277	78 79 79 70 VEAR	0004530 000450 0004550 0004550	ATOR'S TATION HUMBER	DEFTI TO BOTTO 4581. NO. 085.	# 894 908 920 MAK DEPTI M STAFE	3 OH 34	ERVATION	5f 4	CODE	TIME AM	1	5	TATION
1 3 REFERENCE SHIP THE TO. CODE NO.	LATITU	STD STD STD ORS	1300 1400 1500 T151)	03 35 0373 0377	5475 3474 34930 STATION 1 IGM11 MO GAY 1 74 1 1 ATER IR TRANS DIR.	271 271 271 271 271 271 271 271 WIND	78 79 79 70 70 70 70 8AR METI (mbi	0004530 0004550 0004550 0004550 0004550 0004550	ATOR'S TATION HUMBER APT C WEI RULR	DEPTH 10 80110 085.	# 894 908 920 MAK DEPTI M STAFE	5 DH 34	ERVATION	5f 4	CODE	TIME AM	1	5	TATION
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IFFERENCE SHIP TO COOR SHIP TO	LATITU 4402	STD STD STD ORS	1300 1400 1500 T151 7	03 d 5 0 3 7 d 0 3 7 7	5475 3474 34930 STATION 1 IGATI MO 0AY 1 34 1 H ATER IR TRANS OIR	271 271 271 271 271 271 271 134 WIND SPID FORCE	78 79 79 70 70 70 70 70 1903 MARI (mbi	ORIGIN CRUISE 5 NO AIR TEP ER ORY 1) SULR D 133	ATOR'S TATION LUMBER APT C WEI CO	DEPTH 14 DEPTH 10 BOTTO 4587 DEPTH 14 DM 4587 DEPTH 14 DM 4587 VE	MARE OFFICE OFFI	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
ITERINCE SHIP IND COOR NO COOR STILL STATE OF THE STATE O	LATITU	STD STO STO OR S	1300 1400 1500 T1-17	03 85 03 73 03 77	514 75 34 74 34 73 6 STATION II MO GAY MO GAY	271 271 271 271 271 271 271 271 271 271	78 79 79 70 76 8A8 METI (mbi) 14	0004530 0004550 0004550 0004550 0004550 0004550 0004550 0004500 000400 000400 000400 000400 000400 000400 000400 000400 000400 000400 000400 0	ATOR'S TATION (I MET CON 12 TO TO TO TO TO TO TO TO TO TO TO TO TO	DEFTIN TO BOTTO OBS. NO. OBS. OBS. OBS. OBS. OBS. OBS. OBS. OB	MARE HOUND STAFF	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 IEFERENCE SHIP IND IO, CODE NO CODE MESSING MESSI	LATITU	STD STO STO ORS	1300 1400 1500 T1517	03 85 03 79 03 77 03 77 03 77 10 10 10 10 10 10 10 10 10 10 10 10 10	3 + 75 34 74 34 93 0 STATION 11 MO GAZE 32 12 MO GAZE 35 35 35 14, 350 3 300 3 300 3 300 3	271 271 271 271 271 271 271 271 271 271	78 79 79 70 YEAR YEAR MET (mb) 14 MA-1	0004530 0004550 0004550 0004550 0004550 0004550 0004550 0004550 0004550 000450 000450 000450 000450 000450 000450 000450 000450 000450 000450 000450	ATOR'S TATION HUMBER WEI RULR 127 7 MI 2000 3 001	DEPTI TO SIGN VE	# MAE # 908 # 920 # DEPT M STMPL DUND LOCITY DO 79	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
EFERENCE SHIP POPULATION NO CODE NO STATE OF THE POPULATION NO STATE OF THE	CAST NO	STD STD STD ORS	1300 1400 1500 T1517 NGITUDE 5 1030 054 m	03 85 03 74 03 77	34 93 6 STATION 1 (GMT) MO GAZE 3 1 24 ATER 3 5 1/4 3 5 0 3 5 1/4 3 5 0 3 5 1/1 27 3 1	277 277 277 277 277 277 277 277 277 277	78 79 79 79 8AAR 1903 METER MATT 144 844 844	0004530 0004530 0004530 0004530 0004530 0004530 0004530 0004500 000400 000400 000400 000400 000400 000400 000400 000400 000400	ATOR'S 112 ATOR'S 1ATION 10 MARR TATION 10 MARR 127 7 MI SUR 10 OOO 3 OO1 3 OO1	DEPTH 14 SIM VE	# MARK 1908 1920 H DEPTI M STAFFL DUND LOCITY 10079 10079 10081 10079 10081 10082	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
EFERENCE SHIP (IP) 100 CODE STITZ4 (C.)	CASTION NO	STD STD STD CRS	1300 1400 1500 T1517 NGHUDE 1750 354 m	03 85 03 73 03 77	514 75 34 94 34 93 0 STATION I GENTI MO OAT P 32 19 37 MAS OR 37 MAS OR 30 03 30 br>30 03 30	271 271 271 271 271 271 271 271 271 271	78 79 79 70 8 SARAH METI (mb) 14 14 154 153 164 164 164 164 164 164 164 164 164	0004530 0004550 0004550 0004550 0004550 0004550 0004550 0004550 0004550 000450 000450 000450 000450 000450 000450 000450 000450 000450 000450 000450	ATOR'S 112 ATOR'S 112 ATOR'S 127 ATOR'S 127 ATOR'S ATOR'	DEPTH 14 SIM VE	4 MAK 908 920 4 DEPT M OF STMPL DOUND LOCITY 0079 50079 50079	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
HEERINCE SHIP IND COOR NO COOR	CASTION NO	CARD THE CORS	1300 1400 1500 T1611 Notroot	03 45 03 73 03 77 03 77 03 77 03 70 10 10 10 10 10 10 10 10 10 10 10 10 10 1	34 93 6 34 93	2777 2777 2777 2777 2777 2777 2777 277	78 79 77 77 77 77 77 8A8: MET: 14 MA-T 134 834 846 846 846 846 846 846 846 846 846 84	0004534 0004554 OBGIN OBG	103 103 107 112 112 112 112 112 112 112 112 112 11	Derrical Derrical	#894 #908 #920 # DEPT OF M SYMPI DOCITY OF GOOD OF GOO	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
EFERENCE SHIP (IP) 100 CODE STITZ4 (C.)	CAST NO	STD STD STD CRS	1300 1400 1500 T1517 NGHUDE 1750 354 m	03 45 0373 0377 0377 0377 0377 1474 1474 1475 1474 1476 1476 1476 1476 1476 1476 1476	34 95 34 94 34 93 0 STATION I GAPT 10 A 19 10	2777 2777 2777 2777 2777 2777 2777 277	78 779 770 7848 1903 84444 14 154 883 883	0004530 0004550 0004550 0004550 0004550 0004550 0004550 000450 00	ATON'S TATION HUMBER AFF C WEI C WEI C 127 7 MT SA T 100 3 001 3 002 4 006 5 009	DEFINITION DEF	#894 #908 #920 # DEPTH OF STREET OF	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
ITERINCE SHIP IND NO COOR STILL AND NO COOR STIL	(ATITU) 4402	STD STD STD CAS DE LO DE LO DE S STD SSTD SSTD SSTD SSTD SSTD SSTD SST	1300 1400 1500 T1s17 254 m	03 85 0373 0377 0377 0377 0377 0377 0377 037	34 75 34 74 34 93 o STATION II GARTI MO GARTI JA 129 3 5 76 3 76 3 76 3 76 3 76 3 76 3 76 3 76 3	2777 2777 2777 2777 2777 2777 2777 277	78 779 770 770 770 770 770 770 770 770 770	0004534 0004554 OBGIN OBG	ATON'S TATION HUMBER AFF C WEI C WEI C 127 7 MT SA T 100 3 001 3 002 4 006 5 009	DEFINITION DEF	## MARK #908 #920 ## MARK #908 ## MARK #920 ## MARK #P MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #920 ## MARK #P MARK #920 ## MARK #P MAR	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13	(ATITU) 4402	STD STD STD STD CRS	1300 1400 1500 T1s17 254 m	03 45 0373 0377 0377 0377 0377 1474 1474 1475 1474 1476 1476 1476 1476 1476 1476 1476	34 95 34 94 34 93 0 STATION I I I I I I I I I I I I I I I I I I	2777 2777 2777 2777 2777 2777 2777 277	78 79 79 70 70 70 70 70 70 70 70 70 70 70 70 70	0004534 0004554 OBIGIN	0 103 0 103 0 107 107 112 ATOR'S 15 700 10 100 100	Definition Def	4 MART DEPT OF STATE	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13	44 02 CAST O NO	STD STD STD ORS	1300 1400 1500 T1517 NGTUOD 1500 1500 1054 n	MARSON 14 ~ 41 W Concess 14 ~ 41 W Concess 14 ~ 41 W Concess 14 ~ 14 W Concess 14 ~ 14 W Concess 14 ~ 14 W W Concess 14 ~ 14 W W W W W W W W W	34 95 34 93 6 STATION I GANTI GANTI MO GANT JA 19 34 93 6 STATION OIL STATIO	277 2777 2777 2777 2777 2777 2777 2777	78 779 770 7848 1903 8488 4488 4488 4488 447 4338	0004530 0004550 0004550 0004550 0004550 0004550 0004550 000450 00	0 103 0 103 0 107 107 112 ATOR'S 15 700 10 100 100	DEFTINE DEFT	## ## ## ## ## ## ## ## ## ## ## ## ##	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
Effect SHIP PO COOK STILLS AND N	44 02 CAST O NO	STD STD STD STD CRS	1300 1400 1500 T1s17 254 m	03 45 03 73 03 77 03 77 03 77 03 77 12 ~ 4 73 14 74 15 74 16 74 16 74 17 74 17 75 17	34 95 34 94 34 93 0 STATION I I I I I I I I I I I I I I I I I I	2772 2777 2777 2777 2777 2777 2777 277	78 779 770 770 770 770 770 770 770 770 770	0004530 0004530 0004550 0004550 0004550 0004550 0004550 000450 001220 001220 001220 001220 001224 001224 001233 0012230 001225 001225	107 107	DEFTINE DEFT	4 MART DEPT OF STATE	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13	4402 CAST NO C	CAND THE LO STO ORS ST	1300 1400 1500 T1517 NGTUOL 8 0000 0000 0010 0020 0020 0032 0032 0052 0075 0075 0075 0075 0075 0075	MARSON 14 4 1 1 1 1 1 1 1	34 95 34 93 6 34 93 6 34 93 6 34 93 6 34 93 6 34 93 6 35 63 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	277 277 277 277 277 277 277 277 277 277	78 779 770 770 770 770 770 770 770 770 770	0004530 0004550 0004550 0004550 0004550 0004550 000450 00177	0 103	Definition Def	## MARK 1920 MARK 1920 Mark 1920 Ma	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	OOO5
13 EFERENCE SHIP TO NO COOR HE 1/11 13 13 13 13 13 13	CAST CAST CAST CAST CAST CAST CAST CAST	STD STD STD ORS	1300 1400 1500 T1517 NGTUOL 5 354 m	MARSON 14 41 14 14 14 14 14 1	34 95 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 36 03 7 36 03 7 36 03 7 36 03 7 36 03 7 36 03 7 37 03 7	27727771277727727772777777777777777777	78 77 77 77 78 78 78 78 78 78 78 78 78 7	0004530 0004530 0004550 0004550 0004550 0004550 0004550 000450 001220 001220 001220 001220 001224 001224 001233 0012230 001225 001225	0 103 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OFFINA O	## ## ## ## ## ## ## ## ## ## ## ## ##	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	OOO5
13	CAST CAST CAST CAST CAST CAST CAST CAST	CARD CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS	0000 0000 0000 0000 0000 0000 0000 0000 0000	MARSON O3 45 O3 75 O3 75 O3 77 O3 77 O3 75 O3 75 O3 75 O4	34 95 34 94 34 93 0 STATION 10 10 10 10 10 10 10 10 10 10 10 10 10	277 277 277 277 277 277 277 277 277 277	78 779 770 770 770 770 770 770 770 770 770	0004534 0004554 OBIGIN	0 103 1 103 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Deptition Dept	# 894 # 990 # 1920 # 1920	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	OOO5
13 14 17 17 17 17 17 17 17	(ATTU CAST CAST CAST CAST CAST CAST CAST CAST	STD STD STD ORS ORS ORS ORS ORS ORS STD OR	1300 1400 1500 T1s1 7 150 1500 T1s1 7 1500	MARSON	34 95 34 94 34 93 0 STATION 1 34 93 0 STATION 1 34 93 0 MOT GAY 1 34 93 0 ATER 1 35 03 36 03	217 217 217 217 217 217 217 217 217 217	78 779 779 78 78 78 78 78 78 78 78 78 78 78 78 78	0004534 0004554 OBIGIN	0 103 103 103 103 103 103 103 103 103 10	Deptition Dept	## 1990 #990 #990 #990 #990 #990 #990 #990	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 IEFERENCE SHIP	44 02 44 02 44 44 44 44 44 44 44 44 44 44 44 44 44	STD STD	1300 1400 1500	MARSOIN 14	34 95 34 94 34 936 STATION IN COMMITTEE MO GATE ATTE STATION IN COMMITTEE STATION I	217 2177 217 217 217 217 217 217 217 217	78 77 78 AF 3 AARTHUR 19 4 AF 1 AF 1 AF 1 AF 1 AF 1 AF 1 AF 1 AF	0004534 0004554 OBIGIN	0 103 103 103 103 103 103 103 103 103 10	Deptit D	# 894 #908 #908 # 0518 # 0	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 141 171 141 171	44 02 44 02 44 44 44 44 44 44 44 44 44 44 44 44 44	STD STD STD ORS ORS ORS ORS ORS ORS STD OR	1300 1400 1500 T1s1 7 150 1500 T1s1 7 1500	MARSON	34 95 34 94 34 93 0 STATION 1 34 93 0 STATION 1 34 93 0 MOT GAY 1 34 93 0 ATER 1 35 03 36 03	217 217 217 217 217 217 217 217 217 217	78 77 77 78 78 78 78 79 78 78 78 78 78 78 78 78 78 78 78 78 78	0004534 0004554 OBIGIN	0 103	Other Othe	## 1990 #990 #990 #990 #990 #990 #990 #990	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 IEFERENCE SHIP	4 4 0 2 CAST NO. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	STD STD	1300 1400 1500	AARSON O3 45 O3 75 O3 75 O3 77 O3 77 O3 75 O3 75 O3 75 O4	34 95 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 35 92 19 35 93 94 93 0 35 93 94 93 0 35 93 94 94 94 93 94 94 94 94 94 94 94 94 94 94 94 94 94	211 211 211 211 211 211 211 211 211 211	78 779 779 78 78 78 78 78 78 78 78 78 78 78 78 78	ORIGIN CRUS 3 CTT OU CTUS 3 CTT OU OU CTT OU OU CTT OU OU OU OU OU OU OU	0 103	OFFIT OFFI	## 1000 P 19 P 100	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13	4 4 0 2 CAST NO. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	STD STD	1300 1400 1500 T1617	MARSON O3 45 O3 75 O3 75 O3 77 O3 75 O3 77 O7 10 O3 75 O3	34 95 34 94 34 93 0 STATION 10 10 10 10 10 10 10 10 10 10 10 10 10	211221131131131131131131313131313131313	78 779 779 844 190 3 844 1	001222 001224 001233 001223 001223 001224 001234 001234 001234 001234 001234 001234 001234 001234 001234 001234 001234	0 103 103 112	OFFIT OFFI	## 894 ## 908 ## 908	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 NOTICE NO. SHIP NO. COOK	44 02 CAST 0 0 NO NO NO NO NO NO NO NO NO NO NO NO NO	STD STD STD CRS DE 100 CRS DE 100 CRS DE 100 CRS STD	1300 1400 1500 T1617 WARTHOUSE 1500 1500 1500 1500 1500 1500 1500 150	MARSON	34 95 34 94 34 93 0 STATION IN INC. MO GAY 1 34 93 0 ATER 1 35 01 36 03 36	2777 2777 2777 2777 2777 2777 2777 277	78 779 7848 1 90 848 1	0004530 0004550 OBIGIN	0 103 1 103 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OFFIT OFFI	#894 #908 #928 #928 #928 #928 #928 #938 #938 #938 #938 #938 #938 #938 #93	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 141 171 141	44 02 CAST 0 0 NO NO NO NO NO NO NO NO NO NO NO NO NO	STD STD STD CRS STD CRS STD STD STD STD STD STD STD STD STD ST	1300 1400 1500	MARSON 14 % 40 % 40 14 % 40 14 % 40 14 % 40 14 % 40 14 % 40 14 % 40 % 40 14 % 40 % 40 14 % 40 % 40 % 40 % 40 % 40 % 40 % 40 %	34 95 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 35 19 19 19 19 19 19 19 19 19 19 19 19 19	211221131131131131131131313131313131313	78 779 7648 190 5444 4 553 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0004530 0004550 OBIGIN	0 103	OFFICE Control Contr	# 694 # 990 # 0 000 # 0 000	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 141 171 141	4 CANTO	STD STD	1300 1400 1500 T1617 WITE 1 100 1500 1500 1500 1500 1500 1500 15	MARSON SOLVER S	34 95 34 94 34 93 0 STATION 10 10 10 10 10 10 10 10 10 10 10 10 10	2772 2777 2777 7777 7777 7777 7777 777	78 779 7648 190 34444 190 3465 190 190 190 190 190 190 190 190 190 190	0004530 0004550 OBGINI CRUSS	0 103 103 112	OFFIT OFFI	# 9908 # 9920 # 9908 # 9920 #	34 BECIAL VATIONS	PO ₄ =P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 REFERENCE SHIP 100 1	4 CANTO	STD STD STD CRS ORS ORS ORS ORS ORS STD OR	1300 1400 1500 T1617 WASHINGTON TO THE TO TH	AARSON O3 45 O3 75 O3 75 O3 75 O3 75 O3 75 O3 75 O4 70 O4	34 95 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 35 03 93 93 93 93 93 93 93 93 93 93 93 93 93	211 211 211 211 211 211 211 211 211 211	7.8 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	001223 001234 001233 001226 001226 001226 001226 001226 001226 001226 001226 001233 001226 001226 001234	7 107 112	OFFIT OFFI	## 1000 P 20 P 20 P 20 P 20 P 20 P 20 P 20	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 REFERENCE SHIP 100 1	4 CANTO	STD STD STD STD CAS STD STD STD STD STD STD STD STD STD ST	1300 1400 1500 T1517 NGHUGE 1500 1500 1500 1500 0000 0000 0010 0010 00	MARSON 14	34 95 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 34 93 0 35 93 93 93 93 93 93 93 93 93 93 93 93 93	211221131 134 1134 1134 1134 1134 1134 1	7.8 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	0004530 0004550 OBIGIN CRUST OBIGIN CRUST OBIGIN CRUST OBIGIN OBIGI	107 112	OFFICE Company Compa	# 9908 #9908	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005
13 HEFERENCE SHIP TO COOK STITZ 41 C) HE 17/1 13 13 13 13 13 13 13 13 13	4 CANTO	STD STD STD CRS CARD TITE STD CRS CARD TITE STD CRS	1300 1400 1500 T1617 WASHINGTON TO THE TO TH	MARSON	34 95 34 94 34 93 0 STATION 10 10 10 10 10 10 10 10 10 10 10 10 10	2777 2777 2777 2777 2777 2777 2777 277	78 77 77 77 77 77 77 77 77 77 77 77 77 7	0004530 0004550 OBIGIN	0 103 0 103 0 103 0 103 0 103 0 108		## 1990 ## 199	34 BECIAL VATIONS	PO 4-P	2	THER CODE X2	6 8	NO3-N	51 O4-51	0005

I ID.	SHIP	LATITU	DE LO	NGITUOE 5	MARSO SQUAR	E	STATION TO IGMTI		YE AR	ORIG CRUISE NO.	ROTAN OITATZ BALUN	N	DEPTH 01 01108	MAX DEPTH OF S'MPL"	OBS	WAVE ERVATIONS NG PIR SI	WEA- THER COOE	CLOUD CODES		5	NODE TATION UMBER
11241	CO G	4355	N 04	054 W	149	30 1	14 19 1	30-1	-04	017 0)6		4790		33		2 x1	6 2			000
						WAT		VINO	BARO	5 (6 T	EMP C	VIC	HO.	ľ	CIAL						
						OLOR ODE	TEANS OIR.	SHID OR FORCE	METER		WE:	COD	OBS. DEPTHS		ATIONS						
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	MESSENGE TIME of MR 1/10	CAST NO.	C ARD TYPE	DEPTH (m)	1 '	c	5 *4.	SIGN	RA-T	SPECIFIC VOI	.UME \$10?	₹ △ D DYN M 1 103	20	OCITY	0 2 ml/l	FO 4=P ## - 91/1	101A L=# ## - at/I	NO2-N pg = 0f/F	NO3=N #9 - et/l	51 O4-5+ 10 + 01/1	ph
1	-		STO	0000	13	-6	3584	1200	10 1	00119	94 1	0000	15	051							
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			S T O	0010	13		3534	4 t t	5 0	00120		1012		052							
			STD	0050	1.3		3004	250		00120	34	0024		054							
	130		0 + 2	0025	13		35837	26:						054							
			STD	0030	139		3594	200		00120		1030		056							
			S T D	0050	140		3587	200		00120	5 U -	0 000		062							
	130		08.5	0052	140		35871	205						062							
			STD	0075	139		3587	265		J0120	2.5	0+0		304							
	130		08.5	0070	139		35870	266						065							
			STD	0100	138		3587	209		00118	io i	0120		065							
	130		DRS	01 05	130		35957	209		00115				065							
			\$10	01 25	131		35 85	261		00115.)149 5176		066							
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	130		OB S	10210	13:		35816	269		00120	, ,	0240		074							
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	130		OB \$	0310	13		35740	269		00121	•	3 300		076							
	0		510	0400	11		3542	270		00110	91	0477		022							
	130		OBS	0400	111		35394	270			•			018							
			STO	05 00	096		3523	272		U0097	90	0581		977							
	130		DRS	0510	094		35210	272						971							
			STO	05.00	074		3502	273		200800	7	1670		907							
	130		08.5	10609	07		35006	274						903							
			STD	0700	064		3500	275		000685	57	0744		884							
			STD	0600	056	υŸ	3459	275		39060	21	0809	14	o70							
	130		08.5	0811	056	52	34988	276	1				14	807							
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	130		OBS	11016	04	74	34982	277						367							
			STO	1100	046		3478	277		00050		970		875							
			STD	1200	044		3497	277		000492		1020		885							
			S T D	1300	04		3496	277		00043		1009		834							
			510	1400	040		3495	277		00048		1117		904							
			STD	1500	039		3494	277		00047	5	1165		913							
	130		OP S	T1543	038	14	34936	277	7				14	918							

ID. ID.	SNIP	LATITU	O£	LONGITUOE		MARS SQU	ARE		ON TIA		YEAR	CRUIS NO.		ATOR TATIO	DN	OEPTH TO MOTTON	DEPT: OF S'MPL	N 08	WAV SERVAT	E NONS	WEA- THER CODE	CODE	s		1 51	ODC ATION JMIER	
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- 1	twif	CAST NO.	CAR		H (m)	1	€	2	٠/	SIGM	A-1		C VOLUE		DYN. M		OCITY -	02 ml/		a=9	101A L=F	HO3-N			. ai/i	pН	ć
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			ST	TD 04	00	1.2	2.75	356	4	269	5	001	2105	5	0487	15	074										
	13	3	08.9	04	09	1.2	259	350	14	269	7					15	070										
			ST		00	10	210	352	5	271	6	001	10291	l	0549	14	994										
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	13	3	08.5		45		468	349	91	277						14	870										
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			S 1				445	349	B	277	5	000	1484	2	1001	14	585										
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REFERENCE SNIP	SOUTITAL	LONG	STUDE SOUTH	MARSOEN SQUARE	STATION	TIME	YEAR		PROTATE		OEPTH TO	MAY. OEPTH	OBSE	WAVE RVATION	5	WEA- THER	CLOUD		5.7	100C ATION	
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Step 10, Coop Step 10, Coop Coop Step 10, Coop Step 10, Coop Step 10, Step	* 4355 N	040 040 040 040 040 040 040 040	0000 0000 0000 0000 0000 0000 0000 0000 0000	SOUARE 16" 11" 11" 11" 11" 11" 11" 11" 11" 15" 1	1GM 1GM	NRL7/10 173	1958 MATT Chib	O1 O1 O1 O1 O1 O1 O1 O1	STATION NUMBER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Visto Visto	No. OSS. O	DEPTH OF STAFE	ORSE OR 1 35	PO4-P	7	X O	TTH AM	NO3-N WE - 0//	\$1 O4 - \$1	RATION WARE	· ———
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Training Training	** ** ** ** ** ** ** ** ** ** ** ** **	040	0000 0000 0000 0000 0000 0000 0000 0000 0000	SOUARE S	Mo Mo Mo Mo Mo Mo Mo Mo	NR.1716 173 173 174 175	19588 MATTI COMMAND 1958 MATTI C	O126	STATION NUMBER OF STATION NUMB	VIE CODE VIE CODE 9 7 \$ \(\Delta \) \$ \(\Delta \) 0000 0012 0025 0037 0094 0126 0150 0150 0248 0309 0371	No. Osc. O	DEPTH OF SYMPL'S S	ORSE OR 1 35	PO4-P	7	X O	TTH AM	NO3-N yg - eVI	\$1 O4 - \$1	RATION WARE	· ———
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			S T (10407		1272	35525	2695					15074								
	1.9	9.9	5 T L			1011	3522	2712	οi	1001	3 061	4	14793								
	1 5		nes	0511		0335	35170						14986								
	1.0	3 4	510			3866	3510	2727	0.0	009250	071	13	14954								
	18	2.2	CIBS	10508		1855	35097	2729					14951								
		, ,	ST			16=7	3504	2748	0.0	00727	5 07:	10	14905								
			STO			3574	3500	2761	0.0	00596	7 086	2	14872								
	1.8	9.9	085	0816		3559	35001	2703					14869								
	• '		STE			0527	3500	2767		00548			14070								
			STO			0493	3500	2771	0.0	30514	7 09	72	14873								
	18	39	06 S	T1031		0454	35003						14874								
			ST	1100		0465	3500	2774		00+39			14878								
			SI	1200		04+1	3500	2776		00472			14884								
			S T			0422	3499	2777		00464			14593								
			ST			0403	3498	2778		00453			14934								
			ST			0398	3496	2775	0	00471	1 12	Įυ	14917 14922								
	1 8	89	OBS	71541		0396	34954	2778					17722								
_	_	_			- M.	ARSDEN	STATION	TIME		DRIGIN	A1OP'S	Ţ	DEPTH OF		WAV		WE	. CLOU			NODO
_	SHIP	LATI	TUDE	LONGITUDE	S S	OUARE	IGM				MOITATE	-1	10	5	HGT H		THE				DITATE
					3		MO DAY			10	NUMBER		IM'S MOLLO	L"S Du							

D.	CODE	LATITUE	30	LONGITUDE	90	200			SMT!	- 1	rt A B	C#UISE	21	MU	ON	100	TO MOTE	S'MPL"	1 -	HGT HE		CODE	TIPE AM	1		N	UMBER
٥.	-		1/10	1/10	13	10"	1"	_	AY HE			-	_		ac.	+	_	3 MIL	+	NO.		X 5				_	0011
41	col	435€	N	040595 H		149	30	04 2	8 1	27 1	93	017			-	4	c5+		08	, 1 1 1	3	1 43	1010	1		- 1	0011
,						- [WA	TER	w	IND	BARC		AIR TEN				NO. GES.		CIAL								
							COLOR	TRAHS.	DIR.	SPLEO OR FORCE	METE		ORY IULE		ET CC	P	OBS. IEPTHS	ORSERV	VATIONS								
								1	60	514	136	5 1	40	1	16 7	1	14										
1			_		_	Τ'		1-		1		444.0.00	c volu		Z A	0	1 501	JND		. PO	, ,	0141-6	NO2-N	NO3-	N	SI O4-Si	ρN
	MESSENGI TIME	M ND.	CAR		(m)	t	₹	2	٠4.	51G A4	A -1	ANON	ALY-110	,,	DYN	,5		CITY	03 41/	VA * 01		wg - 01/1	ua - el/l	у 9 - а		µ₽ - 91/1	
	HR 1/10	+			_	٠.		361	2	265	2	34.3	240	1	000	0	15	0+0			\neg				Т		
		_	51				50ช 50ส	300		259		00.	2 40.		1 000			0.90		ı							
	12	I	085				508	361		254		001	24+	1	001	2		092									
				10 001			509	36		258			247		332		15	0 + 3									
	12	,	98.1 198.1				503) 3 4	263							15	0.95									
	12	,		ID 003			50-	30		269		UUl	251	2	003	7	15	U 35									
				ro 005			510	15		254			200		J06	i	15	034									
	1.2	7	08				510		327	256							15	100									
	1 -	,		to 007			497	361		265		001	1252	3	009	14	15	098									
	12	7	38				ووب		j5⊋	2 - 0	6							9 2 6									
		•		10 010			4 C O	35	35	25	32	001	205	3	012	5		100									
	12	7	UB				485	30	346	26:	13							100									
				10 012		i	408	30	J1)	20:	3	001	1265	2	015			040									
			5	TO 015	0	1	444	35	⊇4	260	14	001	1265	9	018	8		092									
	12	7	QB	S 016	6	1	433	35	91 o	200	14							191									
			S	TO 0.0	0	1	428	35		600		301	126⇒	J	025	5 2		095									
	1.2	7	08	5 1021	9	1	423	3.5	320	56.	3.7							097									
			S	10 025	0		407	30		¿ć:			1257		0 5			070									
			S	TD 030	0	1	332	35		451		001	1253	1	0.3	7.7		0 16									
	1.2	7	0.8	S 033	1	1	367		o 17	20								055									
			5	TO 040	0		20-	35		270		.10	1159	>	049	3 7		050									
	1 7	7	0.8				123		394	271								025									
			5	TD 050			032	35		27		-30	1053	2	05	10		001									
	1.7	7	0B				1335		1 5 1	۷7 ،								973									
			5	10 050)850		0 9	2.7		0.0	0002	4	0.70)6		937 901									
	1 4	7	ΠR				1705		996	27				-	0.7			893									
				10 070			1667		00	27			0711		0.5			878									
				10 040)5 8 H		00	2.7		00	0017	U	0.5	21		670									
	1.3	7	C.3				15 3		<u> </u>	2.7		10	U>51	2	04	n a		570									
				TO 0 + 6			1527		0.)	27			05 <i>2</i> 0		0 +			870									
				.10 100			9-17		- 3	_ 7			3495		10			372									
				TD 110			0413		÷7	27		00	J-4 7 J	•	10			873									
	1.	27	34)445		970 96	27		-00	0478	. 3	10	n 2		878									
				TO 121)420)404		45	27			3450		11			385									
				TD 130			ງຊຸດເ≃)3 ຣ ≃		25	27			0459		11			1196									
)3 o 0		94	27			0460		12			+904									
	,	7.7	0.8				J38U J37 ₂		ور ا					•		-		337									
	1	27	UB	2 115			. , , ,		,,,																		

TETERENCE	SHIP	LATITU	30	LON	GITUDE &	MAR	ARE	-	ION T	,	YEAR ,	CRUISE	GINATI	TION		DEPTH TO	DEPTI	H 08	WAVE SERVATI	DMS	WEA-	CLOUD		S	NODC TATION	
006 NO.	2000	•	1/10		1/10	10"	1"	MO I	HYAC	N,1/10		NO.	NU	MBER		MOTTO	S'AAPL	'S OIR	HGT PE	R SEA	COOF	TYPE A SA	Ť	^	UMBER	
311241	(c)	4400	N	04	107 h	144	41	U → .	30 1	15011	300	017	112		4	572		10		3	15	4 3			0012	
							WA	TEB	T 'v	VIND	BARO	A IR	TEMP	7		NO.			' '				,	,		
							COLOR	TRANS	OIR	5410	METER	Din		NET	CODE.	OBS. DEPTHS	OBSER	ECIAL VATIONS								
							COOE	(m)	-	FORCE	(mbal	• UL	5 1	$\overline{}$		UEFIRS										
									15	507	047	15	1 1	32	7	14										
	MESSENGI	CAST	CAL	. 1								securic v	OLUMA	1 2	4 °	1 501	JND		PO.		0741-7	NO2-N	NO ₁ -N	\$104-5		T
	TIME	ol NO	117		OEPTH (m)	"	€	2	٠/	SIGM	A-T	ANDMAL	-1107	OAN	10 ³		CITY	Q2 ml/l	29.		78 - 61\J	μg + 84/1 ′	μg - αt/l	ya - m1/1	g H	ı
	HR 1/10	-	-	F.O.	30.13	+	. 25	+		1 2.	-	2012	2 7 0	+	-	1.5			+	-			-	-	-	+
	1.6			TO	0000		605	36		260		0013	330	00	00		121			-					1	ı
	15	0	OR!		0000		605 592		133	266		0013		4111	1.3		121									
				10 10	0010		5 6 d	361		766 267		0013			13		119									
	1.6		0F:		0050							0013	+ 70	00	27		118									
	15	O		5 10	0023		57a 57ë	36	175	267 267		0013		.1.1	40		117 118									
				ra.	0050		57s	36		257		0013			67		121									
	1 =	+	98.		0055		575 575		170	257		0013	•0•	0.0	31		122									
	1			TO .	0075		571	36		267		0013	5.2 A	-0.1	01		123									
	15	6	08		0343		665		l u K	257		0015	, , 0	0.	01		122									
	1)	0		TD .	01.00		544	36		267		0013	. 3.0	0.1	35		116									
	15	6	OB		0110		5 5 5	361		267		001.	• . 0	0.	,,		115									
	• -	_		ťΩ	01.15		-10	360		257		0013	3 14	0.1	68		113									
				T D	0150		452	360		267		0015		0.2			103									
	15	6	06		0166		470		777	257				0 L	•		106									
	•	_		TO.	0200		453	35		268		0013	144	0.2	67		103									
	15		OA:		10219		4.37		90	208					-		101									
				10	0250		412	3.5		268		0012	JU c	0.3	32		097									
				TO.	0500		357	35		. 59		0012			96		D 6 7									
	15	<u>-</u>	08		0331		315		716	269							077									
			S	ro -	0400	1	1 = 3	35	51	270	2	0011	5+0	0.5	16	150	044									
	15	6	08.5	5	0445	1	103	35	000	270	h					15	019									
			S	TO:	35 60	0	373	35.	21	271		0010	120	00	24		979									
	15	6	08	S	05.52	0	668	35	104	272	7					14	947									
			S	r o	0600	0	702	350)7	273	E	0008	299	0.7	15	14	926									
	15	5	OH!	S	T065c	0	715	3.5	046	274	5					14	905									
			5	TD .	0700	0	uns	351	03	275	1	0000	937	07	92	14	694									
			S	TD.	0800		< 80	350	01	- ∠16	1	0006	123	0.8	50	14	675									
	15	0	0.83	S	08.63	0	525	349	994	270	5					14	866									
				GT.	05 00		51=	34		276		0005	443	U 9	14	14	007									
				10	1000	0	499	3 🕶	- 9	277		0005	171	09	67	14	871									
				TD	1100		462	341	49	277		000+	965	10	17	1 4	876									
	1.5	4	0.6		T1110		455		-56	277							877									
				Tr	1200		43H	34		277		0004			60		883									
				TD	1300		419	34		277		0004			14		892									
				10	1400		4 33	3.4		277		0004			60		902									
				T0	1500		3¢1	34		277		000+	537	1.2	07		913									
	1.5	6	Ob.	S	T1656	0	379	34	940	277	성					14	935									

SHIP	LATITU		LONGITUDE	80	RSDEN		SMTI		YE AR	CRUISE NO		TATIDE	٧ .	DEFTH TO IOTTOM	DEPTH DF S'MPL"		WAVE SERVATIO		THE9 CODE	COD	ES		STATIO NUMB	M
	<u> </u>	1/10	- 17.10	- 10		MD D				-	-		`		Z.WAF.	3 3	HGT FEE	3	15	2	-+-		001	3
00	43.24	* * C)+124 m	14			-	7 1 4	-53	017				•b18	J	2.2)	13	4	'		00.	
					WA	_	- 4	SPEED	BARC		DRY TEM	WET	vis	NO DBS	SPE	CIAL								
					CODE	1 BANS.	DIR	FOIGI	METE	1 8	DK1	BULE	C008	DBS DEPTHS	DRZEKA	ZNOTAN								
					_			504	1-	, 1	14	UB	7 7	21										
		_		-		+ -		1	-		C VOLUA		Σ Δ D	101	UND		+04-		10141-6	ND2-	N ND3-	N 510	24-51	Т
MESSEN	CAST NO	TYPE	DEFTH (m	1	1 1	S	٠4.	SIGM	A -1	AHOM	ALT-EIG	;;'	¥ ∆ D M		DCITY	O2 ml/	2g - 0		μφ - m1/l				- 01/1	эн
HB 1/	10	-				+			-			,		1.5	0.55		_	+				_		_
	1	51			1524	100		2:7		331	647	- 1	3030		U 95		1	- 1		1	1			
	44	IIRS	0003		1524 1515	350		257							093									
i	3.3	045			1872	360		657		501	_ 53	5	0012		0 + 3									
		S Ti			1447	390		207			276		0025	15	089									
		SI			1454	360		£ 57			667		0038	15	000									
		ST			1400	359		255		001	2541)	0003	15	003									
1	3.3	11 H S	0055		1400		372	266						15	660									
		ST			1461	3,50	95	255	· •	001	245	>	0095		056									
1	93	1185	33±3		1450	35	737	265							035									
,		SŤ			1440	35		200		001	230	3	0125		035									
1	93	□B S	0111		1439	35		263							035									
		ST	01.5		1+35	35		200			1227		0156		090									
		S T	D 0150		1422	3.5		2 h 8		901	1234	?	0197		038									
1	73	OHS			14.0		-32	265					03.0		039									
		ST			13±2	35		26		001	1 ∠ 2 →	>	0249		079									
1	93	085			1360	35		259		0.01	- 3.5	7	0310		075 078									
		ST			1354	35		20.			12 1 5 1220		0371		093									
		ST			1345	35	19 772	36		001	1220	0	0311		086									
1	53	095			1335 1175	35		271		3/11	1128	4	0488		033									
	0.3	ST			1079		: 55	271		301		•	0,00		010									
t	93	173 S S T			0975	35.		277		10.)48b	1	0594		980									
	÷3	085			0873		141	27				-		14	750									
1	7.3	51			0756	351		27		000	3417	4	0084	14	923									
1	93	08.5			U552)) -	27						1 4	1593									
-	4.7	ST			0543	35	0 U	27	5.2	000	ರಿಕಿಕ1	*	0759	1 4	1363									
		ST			0557	34		27	51	000	0590	÷	0823		1005									
1	93	OBS			0438	34	950	27	57						850									
•		S T			0465	34		27			0532		0074		856									
		5.1	0 1000)	0466	34		27			0503		0931		1861									
		ST	0 1100)	0440	34		∠ 7		000	D+69	2	0931		+357									
1	93	98 S			0435		95 S	2.7							300									
		ST			0423	34		27			0+81		1023		+876									
		S T			0403	34		_7			0473		1077		+387									
		ST			0396	34		2.7			0475		1125		4899. 6311									
		5.1			03-6		34	27		UU	0473	1	1172		4+11 4+35									
1	.93	OP S			0373		433			0.31	0+75		1291		4930 4946									
		51			0372		-4	27 27			0415 0483		1411		4988									
		51			0367	3 4	-44			0.01	U 7 13 3		. 761		1936									
- 3	21€	08 S			J340		75	27		an	0493	13	105		5043									
		03.5			0335		+4 t	_		0.0		,			5071									
-	215	S 1			0306		94	27		00	0465	9	1890		5134									
	216	08.5			0300		94)								5144									
	216	08:			0264		926								5214									
	FFC	S1			0239		71	27		0.0	0432	9	235		5280									
	216	OB :			0235		,11			. •					5298									
	21c	083			0230		-07								5368									
	216	08.5			0228		+O:	_						11	5385									

Table VIII.—Continued

E SHII		A TITU	DE LDI	HGITUDE 3	M AR \$QU	ARE 1"	STATION (GM		YEAR	CRUISE HD,	STATION HUMBE	н	0 6 7 TH TO 8 0 TT 0 M	MAX DEFTH OF S'MPL'S	1	WAVE ERVATION: HGT PEE	500	R CDDE	5		NOD C STATIO HUMBE
41 CH	1 4	356	N 04	104 W	145	31	U5 U2	12-	1705	017 0	i u		+c13		1 +		4 X	6 4 6			001
						WA	TER	WIND	DARG	>-	EMP T	VIS.	ND.	SPE	TAI					,	
						COPE	TEANS DI	SPEEC OF FORC	200		BULE	COD	OBS. DEPTHS	DBSERV	ATIONS						
							1	• S22	2.7:	126	11	6 7	14								
MESSE FIM HB 1	ر آوه اه	AST HO	CARD 1YPE	DEPTH (m)	1	٣	s •4.	SIG	M A - T	SPECIFIC VOL	UME 1107	₹ △ D DYN. # ¥ 10 ³	SD! VEL	UHD	07 ml/l	PO4=P sq = et/l	IOTAL-			SI D4=S	
			SID	0000	T	53 -	3507	20	75	001300	17 (0000	15	098							
1	3.3		SAS	0000	1	534	3007	1 20	75 '		,		15	0 → 5 '		1	1	'	1	1	1
			SID	3010		5 44	3600	60	75	00130	33 (0013	1.5	100							
			STD	0020		5 2 2	3509	60	75	00130	70 (0026	15	101							
1	53		08.5	3024		633	35069						15	102							
			STO	0030		530	3000	i u		00730:	0 (0039	15	101							
1	29		0 9 5	0045		514	30001							U 9 9							
			\$10	0050		513	3000	3.0		00129	•5 i	3055		099							
1	5.3		ORS	0074		4 t 3	3000							003							
			SID	0075		402	3600	26		001.78	54 (3097		093							
1	29		OHS	0048		459	35931							ū89							
			STD	0100		450	3593	26		00125.		123		089							
,	2.0		STD	0125		- FO	3597	26		001240	57 (0100		091							
1	29		08.S S I O	0145		439	35 = 50							0 7 1							
1	29		OBS	0150		4 = 8 4 0 5	35-5	20		301236	9 (0191		0 70							
1	24		STD	0200			35901			2.11.2				087							
			SID	02 50		405 377	3550 3534	26 26		001230		1253		087							
1	29		3 F S	02 9 •		319	3573.			001234	1 (314		086							
-	2. 1		SID	03.00		302	3570	26		001200		375		072							
1	2 -		OAS	10393		075	3530			001200	15 (1315		067 999							
1	2. 1		SID	04.00		362	352 +	27		001074		1439		996							
1	23		08 S	0488		915	35133			001074	19 (1407		990 950							
	-		STD	0500		904	3513	27		000949	14 0	1590		950 952							
1	2.3		ORS	1057~		610	35081			33374		, , , , 0		929							
-	-		STO	0500		774	3506	27		000815	1 6	0078		919							
			SID	0700		5 4 7	3475	. 7		0000099		753		381							
1	2 ⊋		08 S	0774		5 0 2	34944			-0000	, .			802							
			SID	U5 00		544	34.5	2.7		00060-	5 0	010		361							
			STO	0900	0	500	3470	. 7		000546		370		358							
1	29		OP S	10975		+71	34960							859							
			SID	1000	0	+61	3426	27		U00506	3 0	928		859							
			S (-)	1100	0	+31	2495	27		000482		1478		503							
			SID	1200	04	00	3444	2.7	75	00045		025		870							
			510	1300	0.	5 75	3494	27	75	000405		072		581							
			STD	1400	0	3 70	3423	2.7	76	000473	4]	1119	14	895							
1	23		OBS	T1410	0.	3 ⊋0	34730	2.7	76				14	598							

	LATITUD		HGITUDE E	MARSDEN SQUARE	STATION T	YEAR		ATION	DEFTH TO	MAX DEPTH QF	DI	WAVE SERVATI		WEA-	CODES		S	HODC TATION
J.		/10	17 (0)	10" 1"	MO DAY		NO. H	#36ML	IDIYOM	S'MPL'S	D ar	HGT PE	SEA	CODE	TTPT AM	7	F	UMBER
41 01 4	· • 00	N 0-4	10			130 1950			46 18		2.3		6	X4				001
				COLOR		SPEED ME		V15	HO.	S#EC								
				CODE	(m)	OR IME	101 8011	WET COD	DEPTHS	OBSERVA	TIONS							
					15	502 20	02 147	1 44 1	14									
MESSENGE TIME OF HR 1/15	HO	CARD	DEPTH (m)	1 10	s */.	SIGMA-T	SPECIFIC VOLUM	Z ∆ D DYH M E 103	VELO:) j ml/	PO ₄		OTAL-P	ND3-N #9 - #/I	NO3=N pg - al/1	SI Da=\$0 49 - 01/1	p.H
	Ì	SID	0000	1575	3517	2572	3013333	0000	151	12	_							
136		185	0.000	1575	30167	_072		'	151	12		,	- 1					
		STU	0110	1571	3-17	2573	0017285	0013	151	12								
		STU	0030	15 6 9	3016	2473	0013251	0020	151	13								
134		n S	2024	1567	30104	2 ≈ 7 ↔			151	13								
		S T 1	00.0	1567	3010	2674	0013274	0037	151	1 4								
135		, = 5	0042	4550	2-15 1	1573			151	10								
		SIN	0.050	1-64	1016	. 673	JD1+365	0000	151	16								
13~		JES	0071	1551	35126	2574			151	16								
		210	0075	154-	3511	275	0013273	00-4	151	14								
136		100	2097	1	36 1 € 1	7 79			151	33								
		STI	0100	1 40 5 0	10Um	1.79	001/244	0132	151	U_								
		STU	57.2"	14/1	3 5 (3)(3)	. r -1	001.3++	0154	151	01								
1 26		4.5	11 4 4	1 - 71	35 ∓ 45	_ 4 4 \$			151									
		STU	U15J	. 47)	35-5	65:1	00150.1	∪1∋7	151									
130		- H S	1000	14 1)	355-	0.740			151									
		STI	J. U.J	1-46	1.5 +	11.3	1912553	J251	151									
1 7		SID	0.50	1 1 4 7	1270	,0-0	JU12354	0324	150									
136		DHS	01 *1	1053	10-37	C 24			150									
		SID	4300	1277	- 75 1	L C 74	JU1-J35	4 15										
1:5		TH S	Luse	11	5010	1700			150	÷3								
		STS)4))	1175		2704	0011334	0502	150									
1 . ~		4.5	11+25	019-		2717			1 4 →	dЭ								
		5II			5 1 4	.719	د (ار ل	0003	1 + 9	70								
1.36		115	T 15 -	0-11	1335	. 73.			14+	5 U								
		c I.	3603	0753	3000	.7:5	1000337	0700	147	2.2								
		ST	J7 `	,)	19	.7.1	177,000	1775	143	5 Z								
1.3 -		11.5	J7 .	12.	19 01	17 J			145	00								
		210	UndU	0 -1	+ 10	_ 7. 1	30079-3	0340	145									
134		510	0 = 11	Jake	1.4 5	27-7	11153+5	- 670	145									
1.77		IF S	0	1) + 4 "	· • i	. 771			1 ↔ □									
		SID	1000	O ++ -	7 -0 -19	771	0104141	0347	148									
		510	1100	0433	, 4 -4	· 77 :	1004:54	19.7	144									
		3T)	1200	J = _ i	3	7773	1004-67	1047	140									
		STO	1300	() in () -	4 - 1	_ 77→	000+671	1090	1 +6:									
1.0		STO	1+00	03	19 32	2775	0000025	1144	145									
135		JH S	114 0	0	· + - 7	_ 777			1491	J ~								

BEFERENCE					MARSDEN	STATION TIL	ME .	DRIGINATO	R*5	DEPTH DEPTH		WAVE	WEA.	CLOUD		NO	ooc
CTAT ID.	COOE	LATITUD	E LON	GITUDE \$ 50	SQUARE	(GMTI	YEAR	NO. NUM	IÓN	TO OF	00%	RVATIONS	CODE	CODES		NUI	HON
311241	C.3 /	44)5			11 0	~ 04 1	Ly 1954	17 ULO		515	03	3	X6	2 4		0	016
						EANS DIR	SPEED METE	B DRY W	ET CODE C	NO. OBS. OBSER	ECIAL VATIONS						
					CODE	(m) 1) 2	S12 22			14	-						
	MESSENGE	CAST	CARD	DEPTH (m)	1 -	5 */	SIGMA-T	SPECIFIC VOLUME	₹ △ D DYN. M	SOUND	02 mi/i	PO4-P	101AL-P	NO2-N		5104-51	pH C
	HR 1/10	NO.	TYPE				2	ANOWALI-8107	1 10 ³	15111		μg = α1/9	μg =1/1	μg - et/ l	eg = al/l	#9 - 01/1	
	127	- 1	S TO	0000	157→ 1574	3613 55129	2554 :	JU13586	0000	15111		1			1	,	
			510	3010 0010	1555	3011	2672	JJ1336→ JJ13159	JU13 6026	15106 1 102							
	120		J= 3	00.4	1531	0 t v c :	?575	1013001	0039	15100							
			510 510	0050	1404	3533 4065	2575 2560	0012763	0005	15095							
	129		ORS STO	0075	1499 1400	3595	2630 2682	JJ12636	3097	15035							
	129		GHS	0075	1450	35450	2002	0012525	0128	15085 15078							
	129		STD	0100	1427 1427	3544 35492	1554 2654			15078							
			STD STD	0125	1+25	3591 3593	7685 7686	0012473	0160	15083 15087							
	129		ORS	0150	142+	35332	2685	0012359	0253	15087 15069							
	129		S 10 08 S	02 0 0 1 02 0 0	1354	3575 3574 a	2685			15059							
			STO	0250	1329 1285	35.71 35.55	2690 2694	0012235	0314 0375	150ob 150ol							
	129		ORS	0301	1234	3504€	2594 2706	0011130	0451	15061 15024							
	129		S T D I R S	04 0 0 04 0 2	1137 1134	3542 35+20	270o			15023							
	123		\$10 08 \$	05 0√ 05 0→	0981 0=74	352 7 35260	2721 2722	0009750	u 595	14981							
			STD	0600 10604	0763 0755	3503 35024	2737 2 7 38	0003131	0685	14914							
	129		0 t S S T D	0700	0556	3501	2751	0006903	0760	14389							
	129		STO	0300 081⊸	0575 0550	3501 35004	2761 2754	0005988	0825	14373							
	12.		STD	0900	0526	3500	2766 2771	0005493 0005131	0382 u335	14870							
	129		S T 9 3 R S	1000 T1024	0467 047d	34992	2772			14670							
			\$10 \$10	1100 1200	0454 0427	3499 3409	277+ 2776	000465c	1985 1033	14873 14879							
			STD STO	1300	040d 0395	3497	2777 2778	0004570 0004593	1079	14387							
			STO	1500	0357	3495	2778	0004083	1172	14913							
	129		0 H S	11=30	0389	34 344	2777			14918							
REFERENCE CIEV ID.	SHIP	LATITU	DE LO	NGITUDE 1	MARSDEN SQUARE	STATION 1	TIME YEAR		TION	DEPTH DEP	TH O8:	WAVE SERVATIONS	COD	CODE	s	ST	NODC ATION UMBER
CODE NO.	CODE	•	1/10	1/10 2	SQUARE 10" 1"	MD DAY		CBUISE STA	TION	DEPTH DEP	TH O8:	SERVATIONS THGT PER S	THER	CODE	S	N	NODC ATION UMBER
CTET ID.	CODE	4355	1/10		10" 1" 1 4 C 2 1 WA	GMTI MD DAY DE 05	WIND 145	CBUISE STA NO. NU B D17 O17	TION MBER	10 DEP 10 O 80110M SMS +018	TH OR: F DIL 43	SERVATIONS THGT PER S	THER COD	CODE	S	N	NWEE
CODE NO.	CODE	•	1/10	1/10 2	10° 1° 14° 21	MD DAY DER	WIND BA	CRUISE STAND. NU. B D17 D17 RO- 1ER ORY bal BULB	TION MBER TO VIS. CODE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH OR: F PL'S DIL 43	SERVATIONS THGT PER S	THER COD	CODE	S	N	NWEE
CODE NO.	SHIP CODE	4355	N 04	1/10	SQUARE 10" 1" 1 4 5 2 1 WA' COLOR CODE	MD DAY OF OF	VEAR HR.1/10 UP 5 1 955 WIND BA SPERO ME OR OF OFFI	CBUISE STANO. NU B D17 O17 BO- AIR TEMP 158 ORY BULB DU 153	TION MBER	DEPTH DEP TO O BOTTOM SMS + D 1 d S NO. OBS. DEPTHS OBSE	TH OB: FPL'S DIL 4 3 SPECIAL RVATIONS	NGT FEE S	THE COD	CODE TITE AN	5	N:	0017
CODE NO.	CODE	4355	1/10	1/10 2	SQUARE 10° 1° 1 4 C 2 1 WA COLOR	MD DAY DE US STALL	YEAR HR3710 UPS 135 WIND BA STELO ME OF IM FORCE IM SIGMA-1	CBUISE STAND. B D17 O17 BOTTER ORY DELT BULB SPECIFIC VOLUMI ANOMALT—E197	TION MEER TO VIS. WET COOR BULLS TO DYN. M X 103	DEPTH TO DEP TO SMITH	Og ml/	NGT FEE S	THER COD	2 2	NO3-N	N	NWEE
CODE NO.	SHIP CODE	4355 CAST NO.	CARD TYPE	1/10 A	SQUARE 10" 1" 1 4 5 21 WA COLOR CODE T % T	(GM11 MD DAY) 1 05 IER TEANS DIR. 5 1/4.	VEAR HR.1/10 135 135 WIND BA 17610 OF 10010 Um SIGMA-T	CBUISE STAND. B 017 017 BO AIR TEMP 1ER ORY BULE :	TION MBER TO VIS. WET CODE BULLS 1 3 3 7	POTON DEP TO SOUND SMS	Og ml/	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	SHIP CODE	4355 CAST NO.	CAPD TYPE SID DES	0654 (m)	SQUARE 10" 1" 1 4 0 21 WA' COLOR CODE T TO 1 4 - 0 1	## (GM1) ## (DAY) ## (D) ##	VEAR HR.1/10 U 3 5 1 955 WIND FORCE FORCE SIGMA=1 2 5 6 9 - 5 0 9 - 5 0 7 5	CRUISE STA NU BOLL ALL TERM ORY BULL SHOULD AND ALT - E197 JU 13604 US 1311 -	© WS. WS. SULB COSE SULB	DEPTH OF TO BETT TO BE	TH OB: FL'S DIL 43 FECIAL RVATIONS	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	SHIP CODE	4355 CAST NO.	CAND THE STD UHS STU OF S	06824 (m1) 3000 (3000) 3010 (3002) 3002 4	SOUARE 10" 1" 14" 21 WA' COLOR CODE 14" 2 1 1 2 2 1 2 2 2 2	(GM1) MD DAT UF U5 FER U0 S '45'70 35339 3503 3503	YEAR YEAR	CRUISE NO. NU BO 17 017 BO 28 TEMP CAT BULE JUL 30 SMCIMC VOLUMI ANDWAST-418 JUL 3604 U01311- U013814 U013817	TION MBER VIS. COOR BULLS 77 COOR TO THE COOR TO T	DEPTH OF TO DEP	TH OBE PL'S DIE 4 3 PECIAL RVATIONS	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSENGE THE T/10	4355	CARD TYPE SID UHS STO STU	0654 (m)	10' 1' 1' 14' 21	(GM1) MD DAY 1 DE 05 IER	YEAR YEAR	Causis STAN	TION MEER TO VIS. WET COOK BULB 7 200 1 3 3 7 2 \$\times 0.000 TO N. M. X. 10 ³ J. J. J. J. J. J. J. J. J. J. J. J. J. J	DEFINE DEF (100 M) OF	TH OB:	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSENGE 1 CI3 MESSENGE 1 CI3 MESSENGE 1 ME MESSENGE 1 ME MESSENGE 1 MESSENGE	4355	CARD 1996 STD UHS STU OF S STU OF S STU OF S STO OH S S STO	0621H In1 3000 0000 0000 0000 0000 0000 0000 00	10 1 1 1 1 1 4 0 2 1 1 4 2 1 4 2 2 1 4 2 3 1 5 7 1 1 5 7 2 1 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(GM1) MD DAY 05 05 164	# # # # # # # # # # # # # # # # # # #	CRUISE NO. NU BO 17 017 BO 28 TEMP CAT BULE JUL 30 SMCIMC VOLUMI ANDWAST-418 JUL 3604 U01311- U013814 U013817	TION MBER VIS. COOR BULLS 77 COOR TO THE COOR TO T	DEPT DEPT	TH OB:	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSENGE THE 1/10 O TH	4355	CAND 1776 STD UHS STD OF S S STD OF S S STD OF S S S S S S S S S S S S S S S S S S	1/16 0 1/16 0	SOUAFE 10 17 14 21 14 21 14 21 14 21 14 21 15 21 21	(GM1) MD D47 05 05 05 05 05 05 05 05 05 05 05 05 05	### ### #### #########################	Causis STAN	TION MEER TO VIS. WET COOK BULB 7 200 1 3 3 7 2 \$\times 0.000 TO N. M. X. 10 ³ J. J. J. J. J. J. J. J. J. J. J. J. J. J	DEPTHS D	PECIAL OF MIN	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSENGE 1 CI3 MESSENGE 1 CI3 MESSENGE 1 ME MESSENGE 1 ME MESSENGE 1 MESSENGE	4355	CARD TYPE SID UHS STO OPS SID OPS SID OPS	1/16 0 1/16 0	SOUAFE S	GM1 GM1 GM1 GM1 GM1 GM1 GM1 GM1	##AN ##AN ##AN ##AN ##AN ##AN ##AN ##AN	Cours STAN	TION MARIE	DEFINE DEF D	TH OB: PLS DIK. 4 3 SPECIAL SPARTIONS	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSENGE CODE 1 C/3 MESSENGE THE 1/10 0 = 6 0	CAST NO.	CA1D N 04	0000 0000 0000 0000 0000 0000 0000 0000 0000	SOUAFE S	GM1 GM1 GM1 GM1 GM1 GM1 GM1 GM1	### ##################################	CRUSS STAN NO. STA	TION MARIE TO VIS. WET CORE 133 7 133 7 14	Depth Dept	PECIAL O7 mV	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	##STENGE TO CODE TO CO	CAST NO.	N	100 m 100	SOUAFE S	(GM1) MD DAY UF 03 (FE NA) MD DAY UF 03 (FE NA) MD DAY MD	HEALTO 1995 1995 WIND	Cours STAN	TION MARIE	NC OFF OFF	OPECIAL RVA HONS	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSENGE CODE 1 C/3 MESSENGE THE 1/10 0 = 6 0	CAST NO.	CASD 1996 N 044 N 045 N	1/16	SOUAFE SOUAFE	MD DAY UF UF UF UF UF UF UF UF UF UF UF UF UF	HEALTO 1992 1993 1993 WIND	Cours STAN	0035 0064 0036 0127 0158	SOUND VELOCITY 14 SOUND VELOCITY 15034 15034 15035 15091 15091 15091 15091 15091 15091 15091 15091 15091 15091 15091 15091 15091	OB: FECIAL RVATIONS Og ml/	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSANGE CODE 11 C/3 MESSANGE MASSANGE CAST NO.	CASD 1776 N 04 S10 DHS S10 OHS S10	106	SOUAFE S	MD DAY 100	HEAT-710 TEAR HEAT-710	Caust State	TOO MARKS WET COORD 133 7 SAA D TO TO TO TO TO TO TO TO TO TO TO TO TO	100 0 0 0 0 0 0 0 0	OB: FECUL DIL OZ MINISTER	PO4=P	THE COD	2 2	NO3-N	S104-5	0017	
CODE NO.	1 CD	4355	CAND 1996 N 044 N 045 N	1/16 0 1/16 0	SOUAFE S	MD DAT UF 05 105 105 105 105 105 105 105 105 105	HEALTO 1995 1995 WIND	Cours STAN	0035 0064 0036 0127 0158	No. OFF	THE PROPERTY OF THE PROPERTY O	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSANGE CODE 11 C/3 MESSANGE MASSANGE 4355	CAND N 04	100 A 100	SOUAFE S	MO DAT MO	HEALTO 1992 1993 1993 WIND	COURT STAN	TON MBER M	NC OSE	The control of the co	PO4=P	THE COD	2 2	NO3-N	S104-5	0017	
CODE NO.	1 CD	4355	CAND N 04 SED UHS STO UHS SED	106 A	SOUAFE SOUAFE	MD DATE TEAM TEAM TO THE TEA	HEAT-70 HEAT-70	COURT STAN	TOOM MEER VICE VICE VICE VICE VICE VICE VICE VICE	100 0 0 0 0 0 0 0 0	OR OR OR OR OR OR OR OR OR OR OR OR OR O	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	Stiff Stif	CAST NO.	CAND N	100 0 100 0 100 0 100 0	SOUAFE S	MD DATE TEANT DIR. 1-5-9-0 35-3-9 35-9-3	HEAT TEAM	Cours STAN	TOOM MEER	No. OFF	OR ALL	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	Stiff Stif	4355	CAND N 04 N 04 N 04 N 04 N 04 N 04 N 04 N	100 A 100	SOUAFE S	MO DAT	HEALTO 1995 1995 WIND	Cours STAN	TOOM MEER CONTROL OF THE CONTROL OF	NC OSE	OR ALL OF	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	MESSANGE 1 C C C C C C C C C	4355	CATD WITH CONTROL OF STORES ST	0691H W1 1300 030	SOUAFE SOUAFE	MD DATE (GMT) MD DATE (GMT) STANA DIL 1507	HEALT TEAL HEALT TEALT HEAL	Cours STAN	TOOM MEER 1000 N 1000	SOUND OFF	THE OUT OF THE PROPERTY OF THE	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	Stiff Stif	4355	CAND IN 04 STD UHS STD	0691H WI 1300 030	SOUAFE SOUAFE	MD DATE DE DE DE DE DE DE DE DE DE DE DE DE DE D	### ##################################	Cours STAN	TOOM MEER TOOM TOOM MEER TOOM TOOM MEER TOOM TOOM TOOM TOOM TOOM TOOM TOOM TOO	No. OFF	OR ALL TOWNS AND	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	Stiff Stif	4355	CA10 N 04 S10 Uh S S10 OH S S1	100 A 100	SOUAFE SOUAFE	MD DATE TEAM TEAM TO DIE TEAM TO DIE TO	HEAT TEAM HEAT TEAM	Cours STAN	TON MEER	NC OFF OFF OFF	The dot on the control of the contro	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	Stiff Cook	4355	CATD N 04 N 04 N 04 S TO 04 S S TO 04 S S TO 04 S S TO 04 S S TO 04 S S TO 04 S S TO 04 S TO 0	000 000	SOUAFE SOUAFE	MD DATE (GMT) MD DATE (GMT) DE (GMT) STANA DIL TERMAN DIL TER	HEALT TEAL	COUNTY COUNTY	TOOM MEER VIE	No. OFF OFF OFF	THE OUT TO THE TENT OF THE TEN	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	Stiff Cook	4355	CAND N	000 000	SOUAFE SOUAFE	MD DAT DE DE DE DE DE DE DE DE		Cours STAN	TON MEER 100 1 10	No.	Property of the control of the contr	PO4=P	THE COD	2 2	NO3-N	S104-5	0017
CODE NO.	Stiff Cook	4355	GAND N O4	OFFI WI OFFI WI OFFI WI OFFI WI OFFI WI OFFI WI OFFI WI OFFI	SOUAFE SOUAFE	MO DAT MO	HEALTO TEAL Cours STAN	TOOM MEER 133 7 133 7 133 7 133 7 133 7 135 13 13 13 13 13 13 13 13 13 13 13 13 13	No. OFF	PFCLAL AVA TONS O7 ml	PO4=P	THE COD	2 2	NO3-N	S104-5	0017	

Table IX.—Observed and interpolated oceanographic data for stations taken by USCGC DALLAS at Ocean Station DELTA, 6 May-28 May 1968, prepared from NODC listing No. 31-1265 DG.

NCE SHIP LATE		NGITUOE S	MARSOEN	STATION TI		ORIGINAT		DEPTH DEF		WAVE	WEA-	CLOUD			HORC
O. COOL	1/10	NGITUDE 50	10. 1.	MO OAY H	YE AR		MBER	*****	PL'S DIE	HGT PER SEA	CODE	COOES			TATION UMBER
265 OG 440	1 N 0	4056 W	149 40	05 06	75 1968	018 001		1	_	1 3	X4	3 4			000
. ,	,	'	WA	TER W	IND BAR	AIR TEMP	E	NO.		1 1	1		1	- 1	
			COLOR	TRANS OIR.	SPITO METE	A DAY	WET COO		PECIAL RVATIONS						
				23	\$05 30	5 200 1	72 7	14							
MESSENGO CASI TIME DI NO.	CARO TYPE	OEFTH (m)	T to	s °4.	SIGMA-T	SPECIFIC VOLUME ANOMALT—1107	₹ ∆ 0 0YN. M x 10 ³	SOUNO VELOCITY	0 g m(/)	PO4=P µg - m1/1	FOTA L-P	NO2=N ug - at/l	NO3-N vg - at/l	\$1 O4-\$1 pg = 01/5	p
	SID	0000	1642	3611	2652	0015194	0000	15132		1					
175	0.85	0000	1642	36113	2652		1	15132	1	1				1	
	STD	0010	1584	3611	2666	0013950	0015	15115							
	STD	0020	1545	3611	2675	0013146	0028	15105							
175	08\$	0022	1540	36112	2676			15104							
	SID	0030	1540	3611	2676	0013056	0041	15105							
175	DBS	0047	1536	36117	2677			15107							
	STD	0050	1534	3611	2677	0013019	0067	15106							
175	DBS	0070	1520	36079	2678			15105							
	STD	0075	1516	3608	2678	0012961	0100	15104							
175	085	0094	1498	36064	2681			15102							
	SID	0100	1488	3603	2681	0012781	0132	15099							
	SID	0125	1453	3554	2682	0012782	0164	15091							
175	085	0141	1437	35896	2682			15088							
	STD	0150	1435	3589	2682	0012826	0196	15089							
175	OBS	T0187	1417	35881	2685			15089							
	STD	0200	1402	3586	2686	0012536	0259	15086							
	SID	0250	1344	3575	2690	0012309	0321	15074							
175	D85	0277	1313	35693	2692			15067							
	STD	0300	1291	3564	2692	0012202	0383	15063							
175	OBS	0362	1213	35498	2697			15045							
	STD	0400	1148	3543	2704	0011280	0500	15028							
175	085	0444	1071	35342	2711			15007							
	STD	0500	0973	3520	2717	0010101	0607	14979							
175	085	T0522	0933	35151	2720			14967							
	STD	0600	0752	3499	2736	0008311	0699	14909							
175	0.65	0680	0620	34906	2747			14870							
	STD	0700	0606	3491	2749	0006965	0775	14867							
	STD	0800	0545	3495	2760	0005981	0840	14860							
175	D85	10847	0520	34962	2764			14858							
	STD	0900	0495	3496	2767	0005379	0897	14856							
	STD	1000	0456	3496	2771	0005017	0949	14857							
	STD	1100	0429	3495	2774	0004812	0998	14862							
	STD	1200	0413	3495	2775	0004742	1046	14872							
175	D85	T1290	0408	34940	2775	_		14885							

ID. CODE	LATITU	DE 1/10	LONGITUDE 500	MARSOEN SOUARE	STATION TO	YEAR	CRUISE ST	ATION UMBER	DEPTH DEPT TO OF S'MP	OB	WAVE SERVATIONS	WEA THER CODE	COOES		5	NODC STATION NUMBER
265 DG	4400		04051 W	145 40	05 07	26 1968			3 mr	\rightarrow	HGT PER SE		1771 14 10			
.00	1 4430		04031 11				1		13	7 20	2 2		3 4	i		0002
				WA		INO BAR		VIS	NO. SI	PECIAL						
				COLOR	TRANS OIR.	TOPCE (mb		WET COO	OBS. OBSE	2 MOIT A VE						
					19	\$15 32		156 7	14							
	-			,I	Ļ ļ				لـــــــــــــــــــــــــــــــــــ	,	ļ.,					
MESSEN TIME HR I/	el NO.	CARD	OEFTH (m)	7 %	2 *4.	SIGMA-T	SPECIFIC VOLUA ANOMALT-310	E & A O	SOUNO	02 ml/	PO4-P	TOT≜↓—P μg - α1/1	NO3−N нg - 61/i	NO3~N	\$104=\$+ #8 - 01/1	
		ST	0000	1523	3585	2660	0014505	0000	15092						-	_
1.	25	DBS	0000	1523	55853	2660		'	15092	1	1 1		I	t	1	1
		ST		1520	3595	2668	0013764	0014	15094							
		STI		1506	3600	2675	0013134	0028	15091							
1	26	085	0027	1489	36002	2679			15087							
		ST		1470	3596	2680	0012702	0041	15081							
		STI		1386	3578	2684	0012361	0066	15055							
1.	25	DBS	0053	1380	35769	2684			15053							
		STE		1398	3585	2687	0012164	0096	15064							
1.	25	DBS	0081	1399	3585€	2687			15065							
		510		1389	3584	2688	0012128	0127	15065							
1.	26	085	0109	1385	35837	2688			15065							
		STO		1378	3582	2688	0012125	0157	15065							
	٠.	STE		1366	3579	2689	0012175	0187	15065							
1.	26	085	0154	1359	35778	2089			15065							
,	2.	STO		1343	3573	2689	0012296	0248	15065							
1.	26	OBS	T0220	1331	35708	2690			15064							
		STI		1305	3566	2691	0012195	0310	15060							
,	26	3112		1253	3558	2675	0011904	0370	15049							
1.	20	085	0335	1211	35525	2699			15040							
1	26	083	0400 T0453	1122	3540	2707	0011024	0485	15018							
1.	20	ST (1036	35297	2714	0000517	0603	14995							
,	26	D85	0562		3518	2723	0009562	0587	14 763							
1.	20	510		0#19 0769	35065 3504	2732	0000100	0.7.	14930							
1	26	085	T0673	0683	35006	2737	0008199	0676	14917							
1.		510		0657	35006	2750	0006975	0.75.2	1+895							
		STE		0574	3500	2761		0752	14889							
	26	DBS	0800	0514	34398	2768	0005986	0817	14072							
-	. 0	STO		0513	3500	2708	0005326	0874	14864							
		STO		0463	3499	2771	0005326	0926	14864							
		STO		0457	3498	2773		0976	14866							
1.	26	085	F1130	0450	34970	2774	0004943	0410	14874							
1.		STO		0435	3497	2775	0004841	1 32 5	14876 14882							
		STO		0416	3497	2777	0004692	1073	14882							
		STO		0401	3496	2777	0004643	1119	14901							
		STO		0390	3495	2778	0004682	1119								
1.3	26	OBS	T1739	0379	34940	2778	0004662	1100	14913							
1.	-	200		0317	37770	2110			14243							

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REFERENCE	SHIP	SOUTITAL	LONG	HODE SOUTH	MARSOEN	STATION TIME	YEAR	ORIGINATOR'	N =0	TO DEPT	OBSER	VAVE IVATIONS	THER CODE	CODES		STA	TION MEEK
CTBY ID.	COOL	1/	10 -	17.10		O DAY HA 1		NO. NUMB	ER NO	1 3 MPL	21 2	GT PIP SEA	1000	8 3	-		003
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					CODE		20 271			4							
								SPECIFIC VOLUME	₹ A 0	SOUND		PO _A =P	10141-7	NO2-N	NO3-N	51 04-51	pH C
	MESSENGE TIME OF	NO.	CARD	DEPTH (m)	1 10	\$ *4.	SIG MA -1	ANDHALT-1167	K 103	VELOCITY	0 2 mt/l	yg - 81/1	μ μ + α1/1	μg = αt/1	μ g + στ/1	pg - ht/l	ě,
	HR 1/10	-	STD	0000	1561	3592	2656	0014835	0000	15104							1
	135	, (DBS '	0000	1561 1554	35519	2656 2665	0014052	0014	15104 15105							
			STD	0010	1545	3607	2671	0013453	0028	15104							
	135	(DBS	0027	1537 1532	36085 3608	2675 2675	0013133	0041	15103 15102							
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			STD	0100	1422	3588	2684	0012506	0131	15076							
	135	1	08S STD	0121 0125	1383 1386	35798 3581	2686 2686	0012359	0162	15068							
			S 1 0	0150	1402	3588	2688	0012244	0193	15078 15086							
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	135		ST0 D85	0600 0613	0815 0793	3510 35085	2 73 5 2 7 36	0008463	0695	14935 14930							
	135		STO	0700	0692	3505	2749	0007147	0773	14903							
	135		DBS	10742	0643 0600	35030 3501	2753 2758	0006283	0841	14893							
			STD	0300	0531	3499	2765	0005623	0900	14871							
	135		DBS	0986	0487	34982 3498	2770 2770	0005194	0954	14868							
			STD	1000 1100	0484 0462	3498	2772	0005015	1005	14876							
			STD	1200	0443	3498 34976	2775 2775	0004871	1055	14885							
	135		D8S STD	11237 1300	0436 0425	3497	2776	0004809	1103	14894							
			STO	1400	0411	3497	2777 27 7 9	0004720 0004641	1151 1198	14905							
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REFERENCE CINY 10.		LATITUO	DB\$	11881	MARSDEN SQUARE	34942 STATION THE (GMT)	2779	ORIGINATO	DR'S	14969	OB!	WAVE SERVATIONS	THE	k COO!	:5	5	NOOC TATION FUMBER
C187 10.	SHIP COOE	LATITUO	DB\$	11881	MAPSDEN SQUARE	34542	2779	ORIGINATO	DR'S	14969	OB!	SERVATIONS	THE	k C008	S .	S N	TATION
C187 10.	SHIP COOE	LA TITUE	DB\$	11881	0371 MARSDEN SQUARE 10° 1° 149 41	34542 STATION TIL GMTI MD DAY HI D5 09 1 TER W	2779 ME YEAR 11/10 32 1968	ORIGINATO CPUISE STAINNO. NUM B D18 004	DR'S TION WAER TO VIS.	0 EFTH OF TO	PL'S DIL 4 14	NGT PER S	THE	TIPE A	S .	S N	TATION
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C187 10.	SHIP COOE	4405	0BS DE LOT 1/10 N 04	11881	0371 MARSDEN SQUARE 10° 1° 149 41	34542 STATION TIL (GMTI MO DAY HI 05 09 1 TEB W TRANS DIR	2779 ME YEAR 11/10 32 1968 NO BAN SPEED MAE ON COM ON	ORIGINATE CPUISE NO. B D18 004 RO- RO- RRO- RRO- RRO- RRO- RRO- RRO-	DR'S TION MEER VIS. WEI CODE ULB \$ \(\triangle \) 0 OYN. MR	OEFTH DE CONTON STAND. OBS OEFTHS OBS OEFTHS OBS SOUND	PL'S DIR. 4 14 SPECIAL ERVATIONS	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
C187 10.	SHIP COOE 5 DG	4405	DBS DE LOT 1/10 N 0 4	11881 NGITUDE 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	MAPSDEN SQUARE 10° 1° 149 41 COLOR COOR	34942 STATION TI- (GMT) MD DAY HI D5 09 1 TER W TAMMS DIR. 1 7	2779 VEAR 11/10 32 1908 SHELD MA SHELD MA SHELD MA SHELD MA SIGMA—T	ORIGINATO CPUSE STAINO. NUM 3 D18 004 AD- AR TEMP CPUSE STAINO AND TO TO TO TO TO TO TO TO TO TO TO TO TO	DR'S TION WEEK VIS. WET CODE ULB 678	0 1 4 9 6 9 O EPT H O DE O C C S S M O C C C C C C C C C C C C C C C C C C	PL'S DIR. 4 14 SPECIAL ERVATIONS	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
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C187 10.	SHIP COOE 5 DG	4405 4405 22 22	CARO 1/10 N 04 CARO 1/10 OBS SID OBS	Olerin (m) Oler (m	0371 MARSDEN SOUAH 12 1: 14 9 41 WA cotoo 1571 1571 1575 1561 1546 1546 1541 1523 1485 1485	34542 STATION TILE (MM) OAT OAT	2779 TEAR TEAR 11/10 32 1908 32 1908 TEAR 10001 SIGMA-1 2005 2065 2060 2070 2070 2070 2070 2070 2070 2070 2070 2070 2070 2070 2070 2081 2082 2081	OBIGINATO COURT STAN NO. NO. NO. D18 004 NO. NO. NO. D18 004 NO. NO. NO. NO. D18 004 NO. NO. NO. NO. D18 004 NO. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.	THON WELL CODE UT 100 TO 100 T	14969 OUTTH OF THE TOTAL THE THE THE THE THE THE THE THE THE THE	OB: OB: OB: OB: OB: OB: OB: OB: OB: OB:	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
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C187 10.	SHIP COOE 5 DG	4405 4405 2 2 2 2	OBS DB LOT	Olerin (m) Oler (m	0371 MARSDEN SOUAH 12 1: 14 9 41 WA cotoo 1571 1571 1575 1561 1546 1546 1541 1523 1485 1485	34542 STATION TILE (MM) OAT OAT	2779 TEAR TEAR 32 1906 32 1906 SZ 5 11 SIGMA-1 2665 2667 2670 2676 2676 2676 2676 2676 2676	OBIGINATO CRUSS 51A' NO. D18 004 D18 0	0014 4 00195 00196 00195 00258	14969 OUTTH ON ON ON ON ON ON ON ON ON ON ON ON ON	OB: OB: PICS DIK. OB: PICS DIK. OB: PICS DIK. OB: PICS DIK. OB: PICS OB: OB: PICS OB: OB	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
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C187 10.	SHIP COOE 5 DG MESSENGE 11 3 . 1 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS Control Control	OFFIN (m) OFFI	0371 MARSDEN SOUAH 12 1: 12 1: 149 41 1571 1571 1571 1571 1566 1546 1546 1541 1523 1485 1465 1405 1346 1340 1402 1346	34542 STATION 11 STATION 12 STATION 1	2779 TEAR TEAR 32 1906 32 1906 SZ 5 11 SIGMA-1 2665 2667 2670 2676 2676 2676 2676 2676 2676	OBIGINATO CRUSS 51A' NO. D18 004 D18 0	0014 0026 0016 0175 0256 0320 00175	14969 OIFTIN ON SM ON SM ON SM OS SOUND VELOCITY 15109 15109 15109 15107 1507 1507 1508 1508 1508 1508 1507 1508 1508 1508 1508 1507	02:51 04:57	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
C187 10.	Shift Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CARD LOT N	Ose Ose	0371 MARSDEN SQUAR 10 1. 14 9 41 WA cotoo 1571 1571 1506 1501 151 1559 1506 1540 1531 152 31485 1405 1384 1312 1396 1302 1396 1302 1304 1312 1209	34542 STATION TILE W GAT	2779 TEAR TEAR 11/10 32 1908 32 1908 TEAR 1000	OBIGINATO COURT STAN NO. NO. NO. D18 004 NO. NO. NO. D18 004 NO. NO. NO. NO. D18 004 NO. NO. NO. NO. D18 004 NO.	0042 0042 0042 0042 0042 0042 0043 0042 0043 0043 0044 0045	14969 OUTTH OF THE TOTAL THE THE THE THE THE THE THE THE THE THE	Ox = 1/2 Ox = 1/2	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
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C187 10.	Ship Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CAND 1/19 1/	OFFIT	0371 MARSDEN SOUAH 10 1 1 14 9 41 15 1 1 15 1 15 1 15 1 15 1 15 1 1 15 1	34542 STATION 11 MD CAVITY 05 09 1 118 W	2779 TEAR TEAR 32 1908 32 1908 32 1908 MINO MIN	OBIGINATO COURT STAN NO. NO. NO. D18 004 NO. NO. NO. D18 004 NO. NO. NO. NO. D18 004 NO. NO. NO. NO. D18 004 NO.	0042 0042 0042 0042 0042 0042 0043 0042 0043 0043 0044 0045	14969 OUTTH OUT OF THE PROPERTY OF THE PROPER		NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
C187 10.	Shift Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CAND 1/1/0	OFFIH (w)	0371 MARSDIN SQUAR 10 11 14 9 41 14 9 41 1571 1571 1571 1571 1571 1571 1571 1	34942 STATION TO CAY TO C	2779 TEAR TEAR TEAR 11/10 32 1901 SIGMA-1 2005 2065 2065 2065 2066 2076 2076 2076 2076 2078 2078 2082 2088 2088 2088 2088 2088	OBIGINATO COUNT STAN NO. 1018 004 NO. 1018 0	Section Sect	14969 OUT IN TO THE TO	0 3 al/	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
C187 10.	Shift Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CAND IT ION N O4 CAND OBS SID OB	OFFIH (#)	0371 MARSDEN SQUARE 17 17 17 17 17 17 17 1	34942 STATION TITE (GMT) TO A TO A TO A TO A TO A TO A TO A TO	2779 TEAR	OBIGINATO COURT STAIN NO. 1018 004 NO. 1018	0014 0016 0016 0016 0016 0016 0016 0016	14969 OEPTH TO THE TO	97.1 02. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
C187 10.	Ship Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CARD 1/1/9	Offith (m)	0371 MARSDEN SOUAN 10 1 14 9 41 WA color coor 1571 1571 1506 1501 1501 1501 1501 1501 1501 150	34942 STATION TO A THE	2779 TEAR TEAR TEAR 11/10 32 1908 32 1908 TEAR	OBIGINATO COURT STAN NO. 1018 004 1	0042 0048 0101 0109 0004 0101 0109 0004 0004 0009 0004 0009 0004 0009 0	14969 OUTTH ON ON ON ON ON ON ON ON ON ON ON ON ON		NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
C187 10.	Shift Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CAND IN OA OBS O		0371 MARSEN SQUAR 15 1 14 9 41 14 15 1 15 1 15 1 15 1 1	34942 STATION 11 GAY GA	2779 TEAR TEAR TEAR 11/10 32 1901 SIGMA-1 2005 2065 2060 2070 2070 2077 2082 2082 2085 2087 2087 2087 2087 2087 2087 2087 2087	OBIGINATO COURT STAND D18 004	0014 4 0028 0044 0054 0054 0054 0054 0054 0054 005	14969 OUTTH TO THE TO		NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
C187 10.	Shift Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	08S 1/19 100		0371 MARSDEN SOUAH 157 1 149 41 1 1 1 1 1 1 1 1	34542 STATION 11 TO OAT 2779 TEAR TEAR TEAR 11/10 32 1901 SIGMA-1 2005 2065 2060 2076 2076 2076 2077 2087 2087 2087 2087 2087 2087 2087	OBGINATO CFUSS 51A1 NO. D18 004 D18 004 D18 004 D18 004 D18 004 D18 005 D18 00	0014 C0016 0104 0105 0106 0106 0106 0106 0106 0106 0106	14969 OUT THE TO THE T		NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004	
C187 10.	Shift Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CAND CONTINUE Octable Color Co	0371 MARSDEN SOUAH 12 17 1 14 9 41 14 9 1 15 71 71	34542 STATION 11 STATION 10 STATION 1	2779 TEAR TEAR TEAR 11/10 32 1908 32 1908 TEAR	OBIGINATO COURT STAN NO. 1018 004 ID 18 004	0014 8 00	14969 OUTTH OF THE TOTAL TO THE TOTAL THE TOT	Ox = 1/2 Ox = 1/2	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004	
C187 10.	Shift Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CAND 1/10 1/	OFFIH (w)	0371 MARSDIN SQUAR 10 17 17 17 17 17 17 17	34942 STATION TITE MO OAY	2779 TEAR	OBIGINATE COUNTY NO. 1018 1514 15	0042 0042 0042 0044 0044 0044 0044 0044	14969 OUTTH OF THE TO SEE THE TO SEE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TH	Ox = 1/2 Ox = 1/2	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004
C187 10.	Shift Cool	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBS CAND CONTINUE Old	0371 MARSDEN SQUARE 17 17 17 17 17 17 17 1	34542 STATION 1: STATION 1	2779 TEAR	OBIGINATE COUNTY NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.	004 2 004 2 005 4	14969 OUTTH OF THE TO SEE THE TO SEE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TE THE TH	OX = 1/2 OX = 1/2	NGT FER S	THEI COD	3 4	NO3~*	S N	TATION UMBER 0004	

Table IX.—Continued

ATTENDAMO?	T 1									. 1		T	and:			Ť		MAX.				T -	1		
CTAY ID.	SHIP	LATITU	DE	LON	GITUDE S	MARS	ARE	STAT	ON T	IME	YEAR		ORIGIN		_	4	DEPTH	DEPTH	0.	WAVE SERVATIONS	WEA-	CLOUD			NODC
CODE NO.	CODE		1/10	250	1/10	10*	11.	MOTO		12 1/10		CRUI		STATIO		- [-	BOTTOM	OF S'MPL'S	DUL	HGT FEE SE	0.007	ITPL AM			UMBER
311265	DG DG	4357		0.64	050 H	149	1				1968	-	-	_	_	+		14	27	5 2		0 3		-+-	0005
, 51120.	1 60 1	7371	"	0 4	0 JO	177	1201				1 700	10.	A IR TE			4				12 12 1		1012	i		0000
								1	_	SPEED	- PAR			-		215	NO.	SPEC							
							COLOR	TRANS.	DIR.	PORC	1		DRY	WE		008	DEPTHS	OBZERV	ATIONS						
								-	17	517	12		183	16	1 8	1	14		_						
						$\overline{}$		 	-	T .	1	-		1	-	_	1	_					1	_	_
	MESSING!	CAST	CAL	tD	DEFIN (m)	т	~	5	٠/	SIG	MA-T	TPEC	MALT-E	ME	₹ A	M	SOU		02 mV	PO 4-P	TOTAL-P	NO3-N	NO3-N	\$104-5	
	HR 3/30		141	1									MALI-1		g 1	03	VELO	CITY		ug - 01/1	ug - ≈1/1	ug - at/1	⊌g - et/1	μg - 01/1	1
				ro	0000		571	360	0	26	60	00	1443	8	000	0	151	08							
	1.3	3`	0.6	s'	0000		571	360	003	26	60			-			151	08		'				1	
				٥٦	0010		565	360		26			1436		001		151								
				0	0020		557	360		26		00	1425	0	002	9	151								
	13.	3	0.65		0025		553	359		26							151								
				ΤO	0030		550	366		26			1395		004		151								
				D	0050		528	360		26		00	1322	0	007	0	151								
	13.	3	089		0050		528	360		26							151								
		_		0	0075		474	359		26		00	1295	2	010	13	150								
	13.		DB:		0075		474		156	26							150								
	13.	3	DB5		0096		434	35		26							150								
			51		0100		423	351		26			1289		013		150								
				D	0125		371	351		26		00	1278	8	016	′	150								
	13	,	DB!		0144		346		60	26							150								
	13		DB!	D	0150 T0189		345 339	356		26 26		00	1263	6	019	9	150								
	13.	,		a I D	0200		319	356		26		0.0	1255	2	026	2	150								
				סו	0250		246	354		26			1229		032		150								
	1.3	a	089		0280		215	354		26		00	1227	0	0 32	7	150								
	13.	,	51		0300		207	354		26		00	1184	n	038	4	150								
	13	1	089		0366		182	354		27		50	1104	0	0,0	•	150								
	1 -	,	51		0400		119	354		27		0.0	1096	٥	049	B	150								
	13	4	Da:		0450		027	352		27		00	1030	,	04,	0	149								
		-	51		0500		936	351		27		0.0	0955	4	060	1	149								
	1.3	4	D85		10536		873	351		27		00	.,,,	-		•	149								
	•	-		r D	0600		752	350		27		0.0	0801	7	068	9	149								
				ΓĎ	0700		511	349		27			0680		076		148								
	13	3	085		0700		611	349		27		- 0		-		-	148								
	-		51		0800		548	349		27		00	05 94	7	082	7	148								
	13	3	085		10879		507	349		27							148								
			51		0900		503	349		27		0.0	0545	5	088	4	148								
				ſĎ	1000		482	349		2.7			0532		093		148								
				٥١	1100		460	349		27			0519		099		148								
			51	D	1200		439	349		27			05 05		104		148								
			51		1300		418	349		27			0491		109		148								
	13	3	085		T1358		406	349		27			•				148								

ERENCE ID.	SNIP	LATITU	Dŧ		SITUDE	DC 14	MARS SQU	DEN	STAT	ION TIA		EAR	CAUI	ORIGIN	ATOR'S	$-\Gamma$	DEPTH 10	DEPTH		WAVE SERVATIO	ns.	WEA- THER	CLOUD		S	NODE
NO.	COOL		1/10		17/10	약	10"	1.	моТ	DAY HE	1/10		NO		U MBER		BOTTON	SMPL	s Da	NGT PER	TEA	CODE	TYPE AM	5		UMBER
1265	DG	4358	N	040	56 W		149	30	05 1	11 1	63 1	968	01	8 00	5			19	17	9 4			8 4	1		0006
	,		- 1				١	WA	TEN .	Tw	NO	-	-	AIR TE	42 T	1			1	1 1		1	'	1	1	
							1	COLOR		1	1710	METER		ORY	WET	COOR	NO.	578	CIAL							
								CODE	rest	DIR.	FORCE	(mbil		8018	BULE		DEFINS	ORSER	V ~ 110/4/3							
										23	\$35	C73		139	122	8	14									
	MESTERGE	J		T			T—+		1							_	T	_		-					1	1
	TIME	CAST M NO.	CAR		DEPTN 6	m I	T	\mathcal{T}	2	*/	SEGMA	-7	SMC	MIC VOLU		Δ×.		OCITY	02 ml/	PO ₄ -		OTAL-P	NO2-N ug - et/1	NO3-N	5104-5	gH
	HR 1/10					_			1_							103	_				7	rg = 51/1	24.601	yg - a1/l	у <u>р</u> - 41/1	_
		.	5 T		0000			62	360		266		00	1405	+ 0	000		106		1				ĺ		
	18	3	085		0000			162	360		266							106								
			ST		0010			60	360		266			1401		31 4		107								
			51		0020			57	360		266			1396		928		108								
	1.0	2	SI	_	0030			55	360		266		00	1392	2 01) 42		109								
	18	2	085		0032			03	359	33.9	266		20	1221		34.0		109								
	163		S.T 0.BS					74	359		267		UU	1323	5 0)69		095								
	ro:	,	51		0063			53	359		267		0.0	1285		102		086 082								
	18		085		0095			34		372	268		00	1200		102		079								
	10.	,	ST		0100			36	358		2682		00	1271	. 0	134		081								
			5 T		0125			44	359		268			1274		166		388								
	18		085	-	0127			45		925	268		00	1214		.00		089								
	10	,	5 T		0150			27	359		2684		٥٥	1261	0.0	197		086								
	18	3	0.85		0190			180	358		268			12 01		. , ,		376								
	4	,	5 T		0200			160	351		268		nη	1248	a n:	260	150									
			ST		0250			72	355		2688			1250		322	15									
	183	3	085		0252			69	355		268		•					046								
			5 T		0300			17	354		209		00	1209	5 0	384		36								
	18	3	085		0379	,	11	25	353	357	270							015								
			ST	D	0400)	1.1	01	353	34	2708	5	00	1108	. 05	600	150									
			ST	D	05 00)	0	166	352	2.2	2721	0	00	0983	0.0	04	149	976								
	18	3	085		T0508	3	09	54	352	207	2721	l					14	973								
			5 T	0	0600)	0	25	350	36	2738	5	00	0829	0.0	95	14	923								
	18	3	085		0631		0	136	350	128	274	ı					149	909								
			5 T		0700			42	340	9	2751	l	00	0687	• 0	771	148	883								
	18	3	DR5		10754			82	340		275						144	167								
			5 T		0800			55	340		2761			06 01		335	148									
			5 T		0900			04	349		276			0551		393	148									
			5 T		1000			165	349		2770		00	0516	0.0	946	1 🕶									
	183	3	DBS		1007			63	349		277						148									
			5 r		1100			47	349		2772			05 03		997	1 40									
			ST		1200			31	349		2774		00	0492	1 (147	141									
	183	5	085		11264			22	349		277						148									
			57		1300			17	349		277			04 857		196	14									
			5 T		1403			05	349		2770			0478		44	14									
			ST		1500			195	349		277			0474		192	14									
			5.1		1750			176	349		277		00	0470	1	310	149									
	10	5	0.85		11914	,	0 :	170	545	939	277	+					14.	114								

CIM ID.	SHIP	LATITU		LON	vGIT U.			ARE		ION I		YEAR	CIU		STATIO NUMBE	N	1	EPTH TO TTOM	DEPTI	1	#328C		ON5	TH	EA-	CLOU	5		NOOC STATION NUMBER
	1 00	/ 3.6 :	1/10	0.	_	/10 4	10"	17			12.1/10	1060	+	-		•	+		S'MPL	+-	\rightarrow	\rightarrow	51 /	^_	-	TYPE A	-	-	
31126	5 0G	4356	N	04	112	*	145					1968	Di				<u></u>		15	2	0 3	2		K	1	8 6	1		0007
								WA	,	1	WIND	SARC		AIR TE	_	v		NO.	SPI	CIAL									
								COLOR	TRANS	OIR	01	M ETE		DRY	BULI			DBS. EPTHS	OBSER	/ A TIO	15								
									1	24	S 05	091	-	156	144	_	1	4			-								
					_		_		4		305	1	1		٠,		1		_		٠,				_				
	MESSINGE	CAST	CA		DEF	TH (m)	1	℃	5	٠/	SIGA	T-AA	SMC	THE VOLU	ME	L S	D M	Sou		02 n	IVI	PO a		TOTAL		NO3-N	NO3-		-Si pH
	HR 1/10		- "						1					, m		1 10	3	VELO	CHT		_	×e .	@1/I	ν μ · Δ	171	ug - e1/1	ug - 01.	d va - c	8.11 P
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	139		08			25		541		30	260		0.0		2			151											
				TD		30		537	360		26			1361.				151											
	1.36			0 1		350		515	360		26		00	1324	4			150											
	139	,	DB:	5 T D)51)75		514 479	360	123	26		0.0	1257				150											
	139		085			376		78		122	261		00	1231	*			150											
	10.	,		10		100		463	360		261		00	1247	7			150											
	139		D8:			102		+61		994	261		00	1541	•			150											
				T O		25		432	359		26		00	1233	3			150											
				r D		50		+08	358		261			1233				150											
	135	5	D85			152		+00		088	268							150											
			S	0	0.	200	1	380	358		26	90	00	1223	5			150	78										
	139	5	08	5	TO	205	1	377	358	339	26	90						150	78										
			5	T D	0	250	1	360	358	31	269	1	00	1219.	2			150	90										
			51	0.1	0	300	1	321	357	74	269	94	00	1206	3			150	74										
	139	S	D8:	S	0	305	1	316	351	734	269	95						150	73										
			S	O 1	04	00	1	175	354	9	270)4	00	1134	1			150	38										
	139	5	DB:	S	104	09	1	160	354	71	27)5						150	34										
			5	0	05	00	0	984	352	4	271	9	00	0999	4			149	83										
	139	6	DB:			808		968		226	272							149											
				0		00		780	350	-	273		00	0843	9			149											
	139	5	D8:		TO			762	350		273							149											
				O		700		88	350		274			0729				149											
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FERENCE	EMIR			- :	MAI	NIOEN	STATION 1	IME		T	ORIGIN	ATOR'S		DEPTH	MAT		WAVE	WEA	CLOUD	1		NOOC	
10.	CODE	LATITUO	E L	ONGITUDE	\$01	UARE	(GMT)		YE AR	CRUI		TATION		10	DEPTI		SERVATIONS	THER	COOES		5	TATION	
NO.			1/10	17/10	10.	111	MO OAY	UL1/10		NO		UMBER		MOTTOM	S'MPL		HGT PEF 51	COOE	ITEL AM	rl .	14	UMBER	
11265	OG :	4358	N 0	4106 H	149	31	05 13	137 1	968	01	8 00	3			16	17	3 2	X 2	6 8			0008	
				,		WAT	ER V	VINO	1	_	AIR TEA	AP TC	7-4	NO.				1	' '	1	1	1	
						COLOR	TRANS. DIR.	SPEED	MET		DRY	WET	21V	QBS.		2 A TION S							
						COOE	tel Own	PORCE	(mbi	11	BULB	8111.6		OEPTHS	0 #36.4								
							25	514	17	3	111	100	7	14									
	MITTING	T			Т		1	`	-				A D	\neg	_								П
	MESSENGE TIME	M NO	TYPE	OEPTH (m)		1 ℃	5 %.	SIGM	1-A		MALT-EL	,t 0	ıA. ₽.		OCITY	O2 m1/1	PO4=P	TO14 L-9	NO2-N	NO3-N	SI O4 = SI	ρН	Į.
	HR 1/10	1											100	*****	CITE		μψ + 01/1	28 - 01/1	yg - 01/I	μg - nt/1	yg - at/l	-	c
		!	STO	0000		547	3607	267		00	13425	0	000	151	102		İ						П
	137	7	280	0000		547	36071	267						151									
			SID	0010		545	3607	267			13421		013	151	03								
			STD	0020	1	5+3	2607	267	2	00	13410	0	027	151	104								
	137	7	085	0027		542	36069	267						151	105								
			SID	00 30		542	3607	267			13429		0 40	151	105								
			SID	0050	1	1541	3607	267	2	00	13492	0	067	151	801								
	137	7	DBS	0053	1	541	36065	267	2					151	109								
			SID	0075	1	532	3605	207	3	0.0	13492	0	101	151	109								
	137	7	085	0079	1	527	36045	267	3					151	801								
			STO	0100	1	482	3601	266	1	0.0	12801	. 0	134	150	197								
	137	7	D85	0105	1	473	35998	268	12					150	195								
			STO	0125	1	456	3597	268	13	00	12625	0	166	150	92								
			510	0150	1	435	3554	268	6	00	12483	0	197	150	189								
	137	7	D8S	0159	1	428	35925	268	6					150	860								
			STD	0200	1	398	3587	268	8	0.0	12381	. 0	259	15.	185								
	137	,	085	0212	1	389	35858	268	7					150	84								
			SID	0250	1	361	3580	269	0	00	12285	0	321	150									
			STO	0300	1	313	3571	269	3	00	12124	. 0	382	150	71								
	137	,	085	0319	1	292	35678	269	5					150									
			STD	0400	1	181	3550	270	13	00	11380	0.	499	150	140								
	137	7	D85	10427	1	140	35430	270						150									
			SID	0500		023	3521	271		00	10889	0	511	143									
	137	7	D8S	0535	C	1957	35137	271						14									
			STD	0600	C	1608	3506	273		00	08649	0	708	149									
	137	7	D85	T0644	C	1725	35015	274						149									
			STD	0700	C	0666	3500	274		00	07140	0	7 9 7	148									
			STO	0800		1578	3458	275			062 02		35 🕶	148									
	137	,	085	0863		533	34973	276						148									
			STD	09 00		1515	3497	276		000	05559	0	913	146									
			STD	1000		1473	3496	277			05198		707	146									
	137	r .	085	T1078		1445	34948	277						148									
			STD	1100		1443	3495	277		000	04949	1 (018	148									
			SID	1200		1431	3495	277			04 972		067	145									
			SID	1300		1419	3494	277			04933		1.7	148									
			510	1400		1408	3494	277			04897		06	149									
			STD	1500		1376	3494	277			04850		215	143									
	137	,	085	T1639		1380	34934	277						149									
									-														

	HIP	LATITU	DE LO	NGITUOE TV18		RSDEN	STATION TIE		YEAR		TATION	-	OEPTH TO MOTTOM	OEPTI OF	280	WA VE ERVATIONS	WEA- THER CODE	Crono		5	NODC TATION
-	G G	4400		058 W	149		05 14 1	_	968	D18 00	UMBER 9	+		5°MPL		2 2	x 5	6 6	Ť –	_ +	0009
						WAT		ND	BARG	AIR TE	MP °C	VIS.	NO.	-	CIAL	- -	1	1 0 10	1	1	0007
						COLOR	TRANS. OIR.	SPEED OB FORCE	(mbs		W ET BULB	CODE	OBS. DEPTHS	OBSER	VA TIONS						
_							18.	S15	088	133	122		14								
WE:	IIMI OI	CAST NO.	CARD	DEPTH Im:	.] .	T to	s */.,	SIGM	A-T	SPECIFIC VOLU	Mr Sy	ΔD.	SOL		0 2 ml/l	PO 4-P	TOTAL-P	NO2-N	NO3-N	51 0 4 - 51	
HR	1/10		510	0000	٠,	513	3584	244	1		, x	103	150	CITY		μg - α1/1	µg - a1/	ν α • α Ι/Ι	µQ - 01/1	μg - αt/1	pМ
1	130	- 1	085	0000	' 1	513	35841	266		0014381	1 00	000	150			1 1					
			STD	0010 0020		505	3589 3593	266		001391		014	150								
	130		OBS	00 24	1	494	35948	267		0013466	, ,,,	028	150								
	130		STD 280	0030		457 381	3590 35808	267		0012871	00)41	150								
			STD	0050	1	376	3580	268		0012019	5 00	066	150								
	1 30		DBS STD	0072 0075		346 342	35753 3574	269		0011851	0.0	96	150								
	130		085	0094	1	320	35697	269		0011651		170	150								
			STD	0100 0125		313 286	3569 3564	269		0011719		25	150								
	1 30		085	0142	1	272	35620	269		0011631	. 01	54	150								
	1 30		ST0 08S	0150 T0187		270 250	3561 35571	269 269	4	0011611	01	83	150	31							
			STD	0200	1	236	3554	269	0	0011610	02	41	150 150								
	130		STD 085	0250		177 150	3544 35397	269 270		0011369		99	150	13							
			STO	0300	1	109	3533	270		0011063	03	55	150 149								
	1 30		DBS	70352 0400		044	35240 3521	270		0010407			149								
	1 30		06\$	0433	0	975	35189	271		0010407	04	62	149								
	1 30		STD OBS	0500 0513		883 865	3512 35110	272		0009204	0.5	60	149								
			STO	0600		734	3497	272		00081 91	06	47	149								
	1 30		08S STD	06 7 3		649 629	34928 3495	274 275		200, 007		2.2	148								
			S T D	0800	0	564	3502	276		0005718		23 87	148								
	1 30		08S STD	0900		543 510	3504 <i>2</i> 3503	276		3005051	•		148								
			STO	1000	0	469	3501	277	4	0005051 0004763		41 90	148								
			STO	1100 1200		439 421	3499 3497	277		0004623		37	148								
	130		085	T1276		416	34960	277		0004631	09	83	148								
			_																		
CTRY ID. C.	ODE	LATITU	DE [ONGITUDE	SQ SQ	RSOEN UARE	STATION TI	ME	TEAR		ATOR'S		OEPTH	MA		WAVE	WEA	CLOUD			NODC
NO.			1/10	-		11	MO DAY H	R,1/10			STATION NUMBER		01 0110#		0.	HGT PLE SE	COOR	TYPI			STATION NUMBER
311265	DG	4345	NIO	4040 W	14	9 30 WA			968	018 01				13		6 3		8 4	-		0010
						COLOR	TRANS DIR.	SPEED	METE		WET	VIL	NO. 085.		ECIAL				'	1	
						CODE	21	57110 102C1	(mb)	0.000	81118		DEPTHS	ORZER	VATIONS						
41	SSINGE	CAST	CARD	T				317	041		094	7	14								
	1144 g	NO.	TYPE	OEPIN (m	'	1 10	\$ %.	SIGA	I=A	ANOMALT-11	# 5	∆ D ×N M. × 10 ³		DOITY	0 2 ml/l	PO4-P	TOTA L = P	NO2-N #9 + 01/1	NO3-N	SIO4-S	
1	132		\$10	0000		1574	3609	266		001390		000	15	110		-		39 1 01/1	μg + σt/1	µg + 01/	
	132		08S STD	0010		1574 1563	36085 3608	266		001381		014	151	110		1 1		1	l l		
	132		ST0 OBS	0020	1	565	3608	266		001379	5 00	028	151								
	102		STD	0023		.564 .564	36082 3608	266		001380	. 00		151	111							
	132		08\$	0045	1	564	36082	266		001380	5 0(041	151 151								
	132		STO	0050 0069		512	3607 36020	266		0013741	00	069	151	12							
	1 2 2		SID	0075	1	494	3601	267		001297	7 01	.02	151 150								
	1 32		08S ST0	0092		454 451	35989 3598	268		001227			150	87							
	1 2 2		STO	0125	1	439	3596	268 268	6	0012373		34 65	150								
	132		08S STD	0141 0150		428 419	35933 3591		7				150	85							
	132		280	10183	1	388	35846	268 268		0012373	01	96	150 150								
			STO	0200 0250		381 352	3584 3580	268	9	0012255			150	79							
	132		085	02 75	1	334	35765	269		0012105	03	18	150 150								
	132		STD OBS	0300 0365		314 244	3573	269	5	0011998	03	79	150	72							
			STD	0400	1	191	3552	269		0011422	04	96	150								
	132		08S STD	0454 0500		107 028	35390	270	8				150	22							
	132		088	T0541		962	3528 35199	271		0010459	06	05	150 149								
			STD	0600		874	3514	272		0009106		03	149								

3508 3507°

0007726 0787

0006516 0858

14923 14903

14888

STD OBS STD OBS STD OBS STD STD

STD

STO

0706

1300

T1340

T0871

			MARSDEN	STATION TIM		ORIGINATO	a's	DEPTH DEPTH		WAVE	W EA-	CLOUD		N	ODC A1ION
FERENCE SHIP LAT	TITUDE LON	GITUDE ES	SQUARE	IG M11	TEAR	CRUISE STAT	DN .	OF	"	SERVATIONS	THER			NI.	IARBER
DE NO. CODE		· 1/10 ° 3	10" 1"	MO DAT HE.		NO. NUM	BE#	3, 77,0		HGT PIN ST	x1	6 6	'	- 0	011
11265 OG 44	02 N 040	351 W	149 40 0)5 15 14	·U 1968			17	24	6 4	^1	1 0 10	1	1 -	
	'	, ,	WAT				VIS		ECIAL						
			CDLOR	TACAL DIR.	DR (mb		ET CODE	DEPTHS	VATION!	1					
			COUL		528 07		11 7	13							
				144	320 0.	9 1 1 1 1 1		1		'		T		SLD4-SI	
MESSENGO CA	ST CARD	DEPTH (m)	1 2	5 -/.	SIGMA-T	SPECIFIC VOLUME	₹ A D	VELDCITY	O ₂ ml	/1 PO4=F uq - 81/E	101AL-F pg - 61/1		ND3=N ug - 01/I	yp - 61/1	pН
HR 1/10	D. TYPE	Dirrit siii					x 103		_		-	<u> </u>	<u> </u>		
1710	STD	0000	1522	3605	2675	0013016	0000	15094					ļ	1	
140	DBS	0000	1522	36054	2675			15094 15095							
• • •	STD	0010	1521	3605	2675	0013055	0013	15096							
	STD	0020	1519	3605	2676	0013044	0026	15096							
140	085	0029	1517	36049	2676	0013047	0039	15097							
	STD	0030	1517	3605	2676 2676	0013047	0059	15099							
	ara	0050	1513	3603	2676	0013121	0000	15099							
140	D85	0056	1510	36030 3605	2682	0012650	0098	15097							
	STO	0075	1492 1485	36058	2684	0012070		15096							
140	OBS	0084	1478	3604	2684	0012498	0129	15076							
	STD	0100	1474	36032	2584	*		15097							
1 40	08S STD	0111	1470	3602	2684	0012552	0100	15097							
	510	0150	1460	3600	2685	0012565	01 92	15098							
140	085	0168	1452	35983	2685			15098							
140	STO	0200	1439	3556	2686	0012508	0255	15099							
	510	0250	1407	3589	2688	0012564	0317	15096							
	STD	0300	1362	3581	2691	0012374	0380								
140	085	0335	1322	35743	2694			15080							
	STD	0400	1228	355 7	2700	0011758	0500	15057 15034							
140	D85	T0452	1142	35436	2706	0010500	0+12								
	STO	0500	1046	3531	2713	0010590	0612	14974							
140	085	0559	0934	35185	2723	0008925	0710	_							
	STD	0000	0849	3511	2730 2 741	0000923	0110	14912							
140	085	T0668	0729	35014 3501	2746	0007412	0791								
	STO	0700	0690	3499	2758	0006279	0860								
	510	0800	0589 0519	34981	2766	00002.		14866							
140	085	0895 0900	0517	3498	2706	0005504	0919	14866							
	STO STD	1000	0488	3499	2770	0005209	0972	14870							
	STD	1100	0463	3499	2773	0004962	1023								
140	085	T1117	0459	34990	2774			14878							
140	510	1200	0441	3499	2776	0004772	1072								
	STO	1300	0423	3499	2778	0004636	1119								
	STO	1400	0409	3498	2778	0004621	116								
	510	1500	0398	3497	2779	0004641	121	1 4917 14943							
		T1681	0398	34953	2776										

ID.	SMIP	LATITU	JDE	LOH	IGITUDE E	MAR SQU	SDEN	STATION	1)	YEAR	CRUISE	STAT	IIDN	DEFTH TO BOTTON	DEPTH DF S'MPL'	DB	WAVE SERVATIONS HGT PIE S	WE THI	EA	CODES		\$1	HODC FATION UMBER
NO.	CODE		1/10		1/10	10"	1-		HR I		ND.		VOEK		+	_	3 2	-		В 3			0012
265	DG	4355	5 N	04	052 W	149	30	05 17	1.7	6 1968	1 1	12			12	26	12 15 1	- 1	1	0 1 3	1	- 1	
	1			'	,	•	WA	ER	WIN		IO- AIR	IE M.P	214	NO.	SPE	CIAL							
							COLD#	2 ZHASE	12. 1	PEIO MET			VET COOL	DBS DEFTHS	OBSERY	A TIONS							
							CODE			UICI		_	11 7	14	_		1						
								2	2 5	20 17	0 100		111	4	L-		4	-	_				
	MESSING	CAST	T	AD.				s •/		SIGMA-T	SPECIFIC VO	NU MT	₹ ∆ D	50	UND	0 2 ml/	FD4-P	TOTAL		NO2-N	NO3-N vg - ot/l	\$1 D4=\$1 99 - 81/1	pH
	DMI	di NO.		FFE	DEPTH Im	, '	r *c	1 , ,	.	310	ANOMALY	-110'	x 10 ³	VEL	TTIDO.		vg - 61/1	Vg - 5		, g - Go.	pg - 07/1		 —
	H% 1/1	<u> </u>		TD	0000	1	568	3609		2667	00137	75	0000	15	109					ļ		1	
	17	.1	08	TD	0000		568	3608		2667	1		•		109		,						
		0		TO	0010		567	3603	}	2668	00137	40	0014		110								
				TO	0020		565	3609	•	2668	30137	44	0027		111								
	17	6	D.F		0022		1565	3609	3	2669					111								
		_		FD	0030		564	3609		2669	00137	45	0041		112								
	17	6	O.E	3.5	0043	1	5 62	3608		2669					114								
			9	STD	0050		154→	3608		2671	00135	60	0069		105								
	1.7	6	D8	3.5	0063		1524	360		2675	0013		0102		099								
				STD	0075		1500	3609		2680	00128	112	0102		095								
	17	6		3 S	0085		1482	360		268 2 268 4	00125	.00	0133	-	090								
				STD	0100		1461	3599		2585	00124		0164		083								
				STD	0125		1428	3590		2685	0012		010		082								
	17	16		BS	0126		1424 1393	358		2638	0012	81	0199	1 1 5	5075								
				STO	0150		1370	358		2689					5070								
	17	76		88	T0170		1356	357		2691	0012	117	0256	1 1	5070								
				STO	0250		1357	357		2694	0011		0316	1 !	5072								
				85	0256		1335	357		2694				1	5072								
	1	76		STD	0300		1331	357		2694	0012	051	0376		5078								
	1.	76		85	T 03 38	-	1320	357		2696					5080								
	ı			SID	0400	-	1294	357		2047	0012	020	049		5081								
	1	75		85	041		1279	356	87	2649					5078								
		76		85	T 04 84		1145	354	62	2707					5041								
	•	, ,		STD	050	0	1101	354		2711	0010		061		5027								
				STD	06.0		0864	351		2730	0009	018	071		4954								
	1	76	D	88	062	3	0859	350		2733	2027	3 . 3	077		4940 4909								
				STD			0709	350		2743	0007	103	014		4886								
	1	76	C	BS	1077		0620			2751	0006	940	086		4886								
				210			0610			2752	0006				4887								
				STD			0571			2758	0005				4888								
				STO			0532			2764	0005				4889								
		_		STO			0454			2775	0000	2 , 2	• • • •		4890								
	1	76	[185	1119	4	U458	200	•	2113				•									

CTEY 10.	SHIP	LATITU	DE 1/10	LONGITUDE	DRUFT	MARS SQU			IGMT		YEAR	C RUISE		ATOR'S TATION	-	DEPTH TO BOTTOM	MAX. OEPTH OF S'MPL"		WAVE SERVATIONS	WEA- THER CODE	CLOUD		5	NOOC FATION UMBER
311255	DG	4400	-	04100 h	+-	149	41		$\overline{}$		1968	+	-		_		42	19	4 2	X 5	3 6	+		0013
						. [WA		+-	WIND	BARG	- L	AIR TEN	AP °C	ui4	NO.	C PF	CIAL	1					,
							COLOR	TRANS	OR	. OI	I mess		DRT	WET	CODE	DEPTHS	OBSERV	ATIONS						
						Ì			19	527	15	2 1	61	150	-	07	-							
	MESSENGE TIME HE 1/10	및 NO.	C A S		(m)	1	°C	s	٠/	SIGA	A A - T		VOLU	OY	∆ D N. M 10 ³	SOU	IND CITY	02 ml/	PO4=F yg = e1/l	101A L=P +g + a+/1	NO2-N PR - 01/1	NO3=N 98 - 81/I	51 O 4 - 51 pg - al/1	рН
	122	2	085	202	7			34	931															
			S 1	ID 250	0			34	95													'	•	
	122	2	085	1252	8	0	349	34	946	27	82					150	165							
			S 1	TD 300	0	0	322	34	93	27	93	000	4980)		151	34							
	122	2	089	302	6	0	321	34	932	271	93					151	39							
	122	2	089	352	4	0.	292	34	927	27	86					152	13							
	122	2	085	1364	7	0.	285	34	934	27	87					152	32							
	122	2	089	402	20	0.	256	34	910	27	870													
	122	2	089	419	00	0.	247	34	927	27	900													

REPERENCE						MARS						_	ORIGIN				I MA	¥			_	T			$\overline{}$	
CTET IO.	SHIP	LATITU	Dξ	LONGITUDE	58	SOUA		31A11	ON TI		YEAR	CRU		STATIC	N.	OEPTH TO	OEPT	'н о	WAV SERVA		WEA-	CLOUD		s	TATION	
CODE NO.	CODE	•	1/10	1/10	۱۹۹۲	10*	1.	MO D	AY H	L1/10		N	o.	NUMB		BOTTOM	S'MP		HGT	PET SEA	CODE	TYPE AM	7		UMBER	
311265	DG	4437	N	04110 W		149	41	05 1	9 1	31 1	960	01	d 01	4			1:	18	4	2		0 3	i –		0014	
	, ,				' '	ſ	WAT	EA	-	INO	BAR	<u>. T</u>	AIR TE	MF Y		NO.	Ϊ.		ן''	'				,	,	
						- 7	COLOR		OUL.	3410	MET	EA	DRY	WE		OBS.	OBSE	ECIAL IVATIONS								
						-	COOE	(m)		LOSCS	(mbi	\rightarrow	BULB	Iut	_	DEPTHS			4							
									24	\$18	06	4	156	15	0 7	14										
	MESSENGE		CARC	DEPTH O		,	τ		٠/	SIGM		SPEC	THIC VOLU	LIME	₹ ∆ D	so	UNC	02 ml	. PC	4-1	TOTAL-P	NO2-N	NO3-N	SI O4-SI		1,
	31ME 58: 1/10		TTPE	Diring	mı	ı i		,	***	310 m		**	OMALT-B	187	1 103	VEL	OCITY	0,1 mi	. >0	- 81/1	## - 01/1	μg = 01/1	μg - α1/1	μg - 01/1	pH	ć
			5.1	0 0000)	14	-73	358	0	266	56	00	1386	5	0000	15	075									Ħ
	131	i' '	OPS	0000)	14	73	357		266	0.0			- 1		150	075	1	- 1	- 1				,		, ,
			5.1	0 0010]		7E	358	0	266	5	0.6	1397	7	0014	15	078									
	1.31	Į.	ORR	0019			82	358		266							160									
			\$ 1				82	358		266			01402		0028		082									
			5.1				84	356		266		00	01404	9	0042		084									
	1.31	l	085				65	358		266				_			085									
			51				17	355		267		0(01353	2	0070		100									
	131		DBS	0055			07	360 360		267							102									
	1 21		51				505	360		267		0.0	01323		0103		100									
			ST				66	359		268			01272		0135		091									
	131		DBS				51	359		268			31212	-	0133		088									
		•	5.1				35	359		260		0.6	1248	.2	0167		085									
	133	l	DBS	0149			07	358		268				-			079									
			SI	D 0150)	14	-06	358	8	268	37	00	1232	6	0198	15	07∌									
			ST	02.00)	1.3	44	357	3	268	39	0.6	01231	ò	0260	15	065									
	131	l	085		ó		119	35€	79	269	10					15	061									
			5.1				102	35€		269			01215		0321		J59									
			ST				77	35e		269		0 (11211	9	0351		058									
	131		085	10304			76	356		269							058									
	131	L	DBS	0384			66	356		269				_			068									
	131		ST				49	356		269		0 (01187	O	0501		065									
	131		085 S T				.57 182	354		270		O.	1075	_	0514		043 020									
			ST				71	351		272			0920		0714		956									
	131		085				124	350		273		00	JU 72 U	-	0114		942									
		•	ST				17	350		274		0.0	0766	1	0799		913									
	131		085				03	349		2.75				•	0.,,		983									
			ST				01	349		275		0.0	00653	5	0870		883									
			ST				04	349		276			00617		0933		885									
			ST	0 1000)	05	27	349	8	276	4		00580		0993		886									
			ST	0 1100)	04	91	349	7	276	, 9	O(0544	2	1049	14	888									
			ST	0 1200)	04	54	349	7	277	13	00	05 07	ь	1102	14	989									
	131	l	085	T1253	3	04	34	349	70	277	15					14	890									

Table IX.—Continued

																	_							0.00	1
REFERENCE	1				. :		SDEN	STAT	ION T	ME		ORIGINA		(TO TO	MAE. DEPTH	085	WAY AVR	/E TIONS	WEA- THER	CODES		51	ATION	
Ter ID.	CODE	LA TIT U	DE	LONG	TUDE B	-	JARE		GMTH		YEAR		ATION REML	80	MOTTO	S'MPL'S			FEB 51	CODE	TIPE AMI	-		IMBER	
ODE NO.	CODE		1/10		1/10	10	+			30 1	368	018 015				13	15	4	3	X 1	3 6		- 0	015	1
311265	OG	4359	N.	040	156 W	149	1		_			4 (B. T.E.M.	, Y	1 1	NO.	1		' '	,	1					
							WAT	_	_	SPEED	BARI METI	O-	WET	VIS	OBS.		ATIONS								
							COLOR	TRAMS.	O.R.	POICE			8068		EPTHS	0.111		i .							
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	MESSENG		CA	RO I	DEPTH (m)		1 10	5	٠4.	SIGA	1- AA	ANOMALT-118	; 0	103		DCITY	0 2 ml/		+ #1/1	#g - #1/l		μg = m1/1	у р - 91 /1		
	HR 1/1		11	PE				<u> </u>				20124.05	-+-	000	15	107		+	_		-				_
			S	10	0000		1562	36		26		0013485	10	000		107				3	1		'		
	1 13	o' '	0.6		0000		1562		107	25		0013568		014		108									
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				T D	0020		15e0	36		26		0013615		041	15	111									
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	1.3	0	08	10	00 50		1543	36		26		0013504	. (1068		109									
			08		0057		1533		059							107									
	1.3	50		TD	0075		1505	36	04	26	7.6	001296	L C	101		101									
	1.3		0.8		0076		1504	36	043	26	78					100									
		,0		TO	0100		1465	35	98	26	82	001266	, (133		091									
	1.3	30	0.8		0114		1450		950							980									
		, •		TO	0125		1447	35	95	26		001258		1165		090									
			S	10	0150		1437		94		85	001252	5 (11 36		090									
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			5	TO	0200		1412		88		86	001239) (1277		880									
	1	30	0.8		0237		1391		841		88 190	001235	7 (321		010									
				0 7	0250		1379		84		94	001212		382		083									
				OTO	0300		1346		80		95	001212			15	084									
	1	30	0.8		0321		1337		79		96	001220	4	0504	15	095									
				10	0400		1333		78		96	00122			1.5	096									
		30		88.	0409 T0497		1201		553		702				15	5063									
	1	30		85	0500		1193		553		703	001163	7	0623	15	5061									
				5 T O	0600		0948		524	27	725	000959	4	0729		987									
		30		85	0676		0800		509	2 27	737					4942									
	1	30		STO	0700		0766		508		741	000803		0817		4932									
				STO	0800		0641	3 9	502	2.7	754	000678	4	0891		4899									
	1	30		85	T0859		0580	34	+99		759					4884									
		30		STO	0900		0567		99		761	000609		0956		4886									
				STO	1000)	0535		499		764	000583		1016	_	4890 4893									
				STO	1100)	0504		498		768	000556		1073	_	4897 4897									
				STO	1200		0472		497		771	000529		1127 1179		4901									
				STD	1300		0441		497		774	000502		1113		4902									
	1	30	0	8\$	T1349)	0425	3	456	> 2	775					. , , , 2									

IO. ICANE I		NGITUDE 50	MARSOEN	STATION TIME	YEAR	CRUISE STATE	ON.	DEPTH DEPTH TO OF OTTOM 5"MPL"		WAVE SERVATIONS NGT FEE SEA	THE® CODE	CODES		ST. N.L	ATION UMBER
NO.	1/10	1/10			9 1968	018 016		16	16	4 2	X1	8 7	ļ		001
265 DG 4	158 N 04	101 #	WA3			AIR TEMP.	e 1	NO. COE		1					
			COLON	-	PEID MET	ER DAY W	ET CODE		CIAL						
			CODE		OICE (mb	ante en									
				23 5	10 07	1 133 1	1 7	14						,	_
		T -		\ 		SPECIFIC VOLUME	₹ ∆ O	SOUND	02 ml/	PO4=P	10T=1-P		NO3-N	51 Da-St	
	AST CARD	DEPTH (m)	T TC	5 %.	SIG M A -T	ANDWALT-EIR	1 103	VELOCITY	03 (41)	uq - 81/I	MB = 01/1	µg - α1/I	µg = 01/1	yg - el/l	
HR 1/10		-	1550	7/10	2670	3013486	0000	15106							
	STO	0000	1559 1559	36098	2670	0013400		15106		1 '			*		
129	, 082	0000	1555	3610	2671	0013446	0013	15106							
	STO	0020	1553	3629	2671	3013449	0027	15107							
	085	0028	1552	36092	2671			15108							
129	510	0030	1552	3609	2671	0013476	0040	15109							
	\$10	0050	1554	3609	2671	0013557	0067	15112							
129	085	0055	1554	36094	2671			15113							
127	510	0075	1535	3609	2675	0013265	0101	15111							
129	085	0083	1525	36077	2676			15109							
• • •	S T 0	0100	1498	3603	2679	0012992	0134	15102							
129	085	0109	1485	36012	2680	2212320	0166	15099							
	\$10	0125	1468	3599	2082	0012729	0166	15093							
	STO	0150	1446	3596	2685	0012565	0170	15092							
129	085	0165	1434	35944	2686 2687	0012510	0250	15091							
	STO	0200	1415	3590 35880	2688	0012310	0200	15090							
129	OBS	TU219	1404 1385	3566	2690	0012333	0322	15087							
	510		1354	3583	2694	0012067	0383								
	STO	0300	1336	35602	2696			15084							
129	08\$ STD		1308	3572	2695	0012225	0505	15066							
127	085	10437	12£2	35662	2700			15076							
124	STO		1107	3546	2714	0010550	0619	15030							
127	088	0544	1011												
127	\$10		0507	3520	2728	0009204	0717								
129	085	T0650	0822	35111	2735	00077	0.00	14945							
	ST (0700	0737	3506	2743	0007738	0802								
	510		0003	3500	2757	0006398	USI	14370							
129	0.8.5	0559	0546	34974	2762	0305583	0933								
	STI		0530	3498	2769	0005325	0988								
	STO		0454	34985	2772	0007327	- 700	14876							
129	085	11068	0473	3499	2773	0005005	1040	14877							
	STO		0464		2775	0004770	108								
	ST		0438		2778	0004615	1136	14892							
	ST		0403		2779	0004513	118								
	ST		0373		2780	0004472	122								
129	085	T1608	0388		2781			14931							

CTIT ID.	41H2 1000	LATITUDE	10	NGITUDE 38	MAESDEN SQUARE	STATION TI	YE AR	ORGINATO	non	DEPTH DEPT	H OBS	WAVE ELVATIONS	WEA-	CODES		3	NODE	
311265		• 1/ •352 h		109 H		05 22 1		018 017	A & { R	EDITOM Sue		4 GT PIB SI	X 1	7 6	7		0017	
311203	56	4 372 0		-10) 4	W.A.		IND LAN	AIR TEMP			-	0 4	~ 1	1 0			0011	
					COLOR	TRANS DIR	OI (m)	ES DEY V	ET CODE	NO. OBS. DEPTHS DESER	ECIAL VATIONS							
						3.2	\$22 03		22 7	14								
	#1551×CI	CAST	CAFD TYPE	DEPTH IN	1 1	5 %	SIGMA-1	SPECIFIC VOLUME	₹ A D.	SOUND	02 =1/1	104-1	1014 L-F	NO3-N	NO3-N	\$104-5		3
	HESSENGE TIME O HE 1/10	NO.						AHOMALT-ELE?	x 10 ³	VELOCITY	02 401	28 × 8171	#8 * 81/1	20 - WI.	µg = ±1/1	μg = 4t/(pН	200
	128	1	STD	0000	1496	3592 35919	2671	0013453	0000	15084						i		
	,,,		STO	0010	1.50	3592	2671	0013466	0013	15085								
	128		STD	0020 00 26	1455 1455	3593 35932	2672 2672	0013418	3 32 7	15087 15088								
	•••		STD	0030	1400	3554	2672	0013396	00.0	15089								
	129		STD	0053 0051	1495	3597 35370	267 4 2674	0013284	0067	15093 15094								
	123		STD	0075	1-95	3505	2681	0012706	0099	15099								
	129	ε	88	0078	1-54	36058	2632	0012220	2121	15098								
	128	C	510 85	0100	1485	3608	2685 2685	0012370	0131	15099								
			STD	0125	1+82	3607	2685	0012440	0152	15102								
	128	(STD	0150 0156	1+75 1+72	3605 36052	2686 2666	0012441	01-3	15104 15104								
			STD	0200	1424	3595	2009	0012331	0255	15094								
			STO	0250	1370 1317	35 ± 3 35 72	2693	0012248 0012145	0316	15083 15073								
	128		18.5	T0300	1317	35718	2693	00121		15073								
	128	C	STD	0399 0400	1214 1212	35509 3551	2698 2698	0011913	0498	15051 15051								
	123	0	BS	T 04 57	105e	35340	2714	0011713	0778	15010								
	120		STD	0500	1051	3533	2714	0010497	0610	15009								
	128	Ĺ	STD	0596 0600	0885 0881	35149 3515	272 A 272 B	0009175	0708	14962								
		_	STO	0700	0715	3501	27+2	0007793	0793	14912								
	129	ε	85 5 1 0	T0707 0800	0705 0614	34998 3501	2743 2756	0006507	0864	14909 14886								
			STO	0900	0534	3502	2766	0005536	0925	1+875								
	128	C	85 STD	0905 1000	0536 0499	35016 3500	2767 2770	00052+3	0979	14875								
			SID	1100	0455	3498	2772	0005245	1030	14878								
	129	C	8.5	T1126	0+59	34975	2772	222 253		14879								
			STD	1200	0435 0417	3 497 3 497	2775 2777	000 4 858 000 47 05	1080	14883 14891								
			STD	1400	0402	3497	2776	0004532	1174	14901								
	128	c	STD	1500 T1657	0393	3496 34958	2779 2778	000-626	1220	14914								
REFERENCE				L.	WARSDEN	STATION TI	M.E	DRIGINATO	R'S	DERTH MAI		w A V f	w.fa.	CLOUD			- 200	
	SHIF	LATITUDE		NGITUDE 8	SQUARE	STATION TI	YEAR	CRUISE STAT	ION .	TO DEFT	H 0851	EVATIONS	WEA- THER CODE	CLOUD		\$1 81	ODC ACION UM SEE	
CTET ID.	CODE	12 TTUBE	10	17.16	SQUARE	STATION TO	YEAT E110	CRUISE STAT	ION .	TO DEFT	H 0851		THER	CLOUD CODES		N	NODC ATION UMBE DO18	
CODE NO.	CODE	1/	10	17.16	10° 1° 1~9 31	1GMT1 MD DAT HI 05 23 1	35 1 96 8	CRUISE STAT	ION .	DEPTH TO OF SUPL	5 01L 5 7	HGP PER SE	THER	CODES		N	UMBER	
CODE NO.	CODE	1/	10	17.16	10° 1° 1~9 31	16 MT H	11 10 1 1 10 9 1 1 1 1 1 1 1 1 1 1 1 1 1	CRUISE STAT NO NUA DIB DIB 018 O- AR TEMP ER DET W BULE BI	T VIL	DEPTH DEPT OF STAND	0851 75 One 57	HGP PER SE	THER	CODES		N	UMBER	
CODE NO.	DG	4 351 N	10	17.16	10° 1° 1~9 31	1GMT1 MD DAT HI 05 23 1	35 1 96 8	CRUISE STAT NO NUA DIB DIB 018 O- AR TEMP ER DET W BULE BI	TC VIS.	DEPTH TO OF SUPL	5 01L 5 7	HGP PER SE	THER	CODES	1	N	UMBER	1
CODE NO.	DG DG	4351 N	10	17.16	10° 1° 1~9 31	16 MT H	11 10 1 1 10 9 1 1 1 1 1 1 1 1 1 1 1 1 1	CRUISE STAT NO NUA DIB DIB 018 O- AR TEMP ER DET W BULE BI	TON VIS. ST COCK LLE	DEPTH DEPT OF STAND	5 01L 5 7	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	UMBER	200
CODE NO.	DG	4351 N	04	101 🗷	10° 1' 1-9 31 WAT COLOR CODE	15 23 1	YEAT EN TO 3 1 70 8 1 1 70 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CRUISE STATE NO NUM D18 D18 O- AR TEMP ES DSY SI SULS S O D94 O SPECIFIC VOLUMS ANOMALT-2107	TC VIS.	DEPTH DEPT OF SME. NO. OF SME. OBS. OBSER 14 SOUND VELOCITY	S DR. 57	BVA DONS HGF ME SE 3 3	TOTAL	5 7		(0018	DOM
CODE NO.	DG DG	4 351 N	CARD TIPE	DEPTH am1	sourie 10" 11 14-9 31 WAT COLOR COURT 14-76 14-76	15MT MD DAT HI 05 23 1 14 W 11MK DR. 19 19 5 %.	1 35 1 30 8 1 30	CRUISE STATE NO NUMBER OF THE STATE OF THE S	78 7 SAD M	15078 1507	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	200
CODE NO.	MESSENCE TIME 6 HR 1 10	4 351 N	CARD TIPE SID BS SID	DEFTH bm1 0000 0000 0010	100 ATE 100 11 14-9 31 14-9 31 14-9 31 14-9 31 14-7-0 14-7-0 14-7-0 14-7-0	15 MD DAY NO 05 23 1 18 W 1444 DR 19 5 %.	VIAF ET 10 35 1 90 9 IND BAR 1910 MET 1910 MET 1910 MET 1910 MET 2075 2075 2075 2075	CRUISE STAT NO. 018 018 018 018 018 018 018 018 018 018	78 7 SAD M 1 10 10 10 10 10 10 10 10 10 10 10 10 1	10	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	200
CODE NO.	MESSENCE TIME 6 HR 1 10	4 351 N	CARD TIPE STD BS STD STD STD	0000 0000 0010 0020 0024	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 15 15 23 35 92 4 35 92 35 91 c	1141 35 1 76 8 11710 HAR 11710	CRUISE STAT NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.	100 N 15 T 15 T 15 T 15 T 15 T 15 T 15 T 15	SOUND SPOEPER SOUND VELOCITY 150.78	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	200
CODE NO.	DG MESSINGS TIME 6 HR * 10	4 351 N	CARD TIPE SID BS SID SID SID SID SID	0000 0000 0000 0010 0020 0020 0030	1470 1475	15	YEAT	CRUISE STAT NO. 018 018 018 018 018 018 018 018 018 018	78 7 SAD M 1 10 10 10 10 10 10 10 10 10 10 10 10 1	10 15 15 15 15 15 15 15	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	5000
CODE NO.	MESSENGE TIME 1 135	4 351 N	CARD TITE SID BS SID SIC BS SID BS SID	0000 0000 0010 0020 0030 0030 0030 0030	1475 1-75 1-75 1-75 1-75 1-75 1-76 1-75 1-75 1-76	(GAT) (GAT) (MO DAY (MO DAY (MO DAY (MO DAY (MO DA) MO DA) (MO	144 10 35 1 368 100 100 100 100 100 100 100 100 100 10	CRUISE STAT NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.	100 N 15 T 15 T 15 T 15 T 15 T 15 T 15 T 15	SOUND SPOEPER SOUND VELOCITY 150.78	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	000
CODE NO.	DG MESSINGS TIME 6 HR * 10	4 351 N	CARD TIPE SID BS SID BS SID BS SID BS	DEFINATION OF THE PROPERTY OF	14-9 31 wat count cont cont cont cont cont cont cont co	GMT MO DAY MO DAY MO DAY MO DAY MO DAY MO DA M	11 10 10 10 10 10 10 10 10 10 10 10 10 1	Court State	TO VIS. 1 CODE 1/15 CODE 1	SOUND SOUN	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	5000
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CODE NO.	DG DG DG DG DG DG DG DG DG DG DG DG DG D	4 351 N	CARD TITE SID BS SID BS SID BS SID BS SID BS SID BS SID BS	0000 0000 0000 0010 0020 0024 0030 0034 0050 0073 0075 0075	1470 1470 1476 1476 1476 1476 1476 1476 1476 1476	S *\(\alpha\) S *\(\alpha\	Signa-1 2675 2675 2675 2675 2674 2676 2680	D18 O18	VX. VX. VX. VX. VX. VX. VX. VX. VX. VX.	100 100	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	טטיר
CODE NO.	DG DG DG DG DG DG DG DG DG DG DG DG DG D	4 351 N	CARD TIPE SID BS SID SID SID SID SID BS	0000 0000 0000 0000 0024 0030 0049 0050 0073 0075 0075 0105	\$0041 10 10 10	MO DAT MO DAT	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CRUIT STATE	VX. VX. VX. VX. VX. VX. VX. VX. VX. VX.	15078 15082 15085 1508	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	2000
CODE NO.	MESSENGE THAT 18 1 1 3 5	4 351 N	CARD ON THE STD BS STD	0000 0000 0000 0000 0000 0000 0000 0000 0000	\$0041 10 31 10 10 10 10 10 1	GATH GATH	STATE STAT	D18 O18	VX. VX. VX. VX. VX. VX. VX. VX. VX. VX.	Source S	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	500
CODE NO.	MESSINGE TIME 6 NE 1 135	4 351 N	CAAD 0 N O N O N O N O N O N O N O N O N O N	0000 0000 0010 0020 0024 0030 0073 0075 0096 0105 0145 0150 10150 10150	\$0041 10 10 10 10 10 10 10	MO DAT MO DAT	Signa-1 Sign	D18 O18	78 7 7 8 7 0000 0013 0026 0039 0056 0099 0131 0163	1000 1000	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	NO0
CODE NO.	OG OG OG OG OG OG OG OG	4 351 N	CA400 044	0000 0000 0000 0000 0000 0024 0030 0050 0073 0075 0155 0145 0150 0250	1475 1-75 1-75 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76	Got Got	Signa-1 Sign	D18 O18	VIL CODE 178 7 0000 0013 0026 0039 0056 0099	15078 15078 15078 15078 15078 15082 15085 15083 15084 1508	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	DOW
CODE NO.	MESSENGE THAT 18 1 1 3 5	4 351 N	CARD TITE STD BS	0000 0000 0010 0024 0030 0034 0050 0075 0075 0105 0105 0105 0105 0105	1470 1470 1470 1470 1470 1470 1470 1470 1470 1475 1475 1474 1454 1341 1341 1341 1351 13	S *4. S *4. S *5.2 S *	SIGMA-1 SAME	D18 O18	78 7 2 2 2 2 2 2 2 2 2 2 3 3 8	1000000 100000000000000000000000000	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	NU0
CODE NO.	OG OG OG OG OG OG OG OG	4 351 N	CA400 044	0000 0000 0000 0000 0000 0024 0030 0050 0073 0075 0155 0145 0150 0250	\$0041 10 10 10 10 10 10 10	Got Got	Signa-1 Sign	D18 O18	T	15078 15078 15078 15078 15078 15082 15085 15083 15084 1508	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	DOW
CODE NO.	OG OG OG OG OG OG OG OG	CA37 N	CA400 STD BS STD	0000 0000 0010 0024 0030 0050 0075 0075 0075 0145 0150 0150 0150 0150 0250 0250 0250 0300 0400	14-9 31	Month Mont	STATE STAT	D18 O18	100 100	Solution Solution	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	1000
CODE NO.	MFSSHC1 135	C C C C C C C C C C C C C C C C C C C	CARD THE STD BS	0000 0000 0010 0020 0024 0030 0075 0075 0145 0150 1000 0125 0126 0250 0257 0300 0257 0300 0257 0300 0400 0400 0400 0400 0400 0400 040	1476 31 1476 1476 1476 1476 1476 1476 1476 1476 1476 1476 1476 1474 1458 1444 1341 1341 1351 1350 1325 1376	MO CAT MO CAT MO CAT MO CAT MO CAT MO MO CAT MO	SIGMA-1 SAM	D18 D18	78 7 0000 0013 0026 0039 0056 0099 0151 0152 0250 0308	100 ost ost ost ost ost ost ost ost ost ost	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	1000
CODE NO.	DG DG DG DG DG DG DG DG	C C C C C C C C C C C C C C C C C C C	STD BS ST	0000 0000 0000 0000 0000 0000 0000 0000 0000	1475 1476	1001 1001	SIGWA-1 SIGW	D18 O18	100 100	15078 15078 15078 15078 15078 15078 15078 15078 15078 15082 15085 1508	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	2000
CODE NO.	MFSSHC1 MFSSHc1 MFSSHC1 MFSSHC1 MFSSHc1 MFSS	C C C C C C C C C C C C C C C C C C C	STD BS ST	0000 0010 0020 0024 0030 0075 0075 0075 0100 0125 0145 0150 0120 0257 0300 0257 0300 0257 0300 0404 0505 0505 0505	1470 31 1470 14	15 15 15 15 15 15 15 15	SIGUA-1 SIGU	D18 O18	1 1 1 1 1 1 1 1 1 1	Service Serv	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	2000
CODE NO.	Title Titl	CCANT C CCANT C C C C C C C C C C C C C C C C C C C	CAND THE STD BS STD	0000 0000 0010 0020 0024 0030 0075 0075 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0100	14-70 14-70	15 14 15 15 15 15 15 15	SIGMA-1 SAME	D18 O18	100 100	100 100	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	DUM
CODE NO.	DG DG DG DG DG DG DG DG	C C C C C C C C C C C C C C C C C C C	CARDO THE STD BS T	0000 0000 0010 0024 0030 0030 0030 0030 0034 0050 0075 0075 0075 0105 0105 0100 0250 0250 0250 0300 0400 0500 0100 0100 0100 0100 0100 01	1470 31 1470 1470 1470 1475 1474 1474 1474 1474 1474 1475 1475 1475 1476 14	No. No.	STATE STAT	DI DI DI DI DI DI DI DI	100 100 100 100 100 100 100 100 100 100	15070 1507	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	DAM
CODE NO.	Table Tabl	C C C C C C C C C C C C C C C C C C C	CAND THE STD BS STD	0000 0000 0010 0020 0024 0030 0075 0075 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0125 0100 0100	14-70 14-70	15 14 15 15 15 15 15 15	SIGMA-1 SAME	Coll State Coll	1 1 1 1 1 1 1 1 1 1	100 100	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	200
CODE NO.	Title Titl	C C C C C C C C C C C C C C C C C C C	CARD TYPE STD BS	0000 0000 0000 0000 0000 0000 0000 0000 0000	1475 14	1001 1001	SIGWA-1 SIGW	Column C	0000 0013 0026 0039 0056 0099 0131 0103 0132 0250 0308 0455 0455	15078 15078 15078 15078 15078 15078 15078 15082 15082 15083 15084 1508	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	200
CODE NO.	Table Tabl	C C C C C C C C C C C C C C C C C C C	CA400 PT S S S S S S S S S S S S S S S S S S S	0000 0000 0010 0024 0030 0075 0075 0105 0105 0105 0105 0105 010	14-70 14-70	15 15 15 15 15 15 15 15	SIGMA-1 SIGM	D18 O18	Section Sect	Section Sect	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	DUM
CODE NO.	Table Tabl	C C C C C C C C C C C C C C C C C C C	CAROL STO SESTO 000 0000 0010 0020 0020 0020 0073 0075 0096 0100 0125 0100 0125 0100 0125 0100 0155 0100 0155 0100 0155 0100 0155 0100 0155 0100 0155 0100 0155 0100 0155 01000 0100	14-76 14-76	1001 1001	SIGWA-1 SIGW	D18 O18	100 100	1000000000000000000000000000000000000	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	DUM	
CODE NO.	Table Tabl	C C C C C C C C C C C C C C C C C C C	0 0 0 0 0 0 0 0 0 0	0000 0010 0020 0030 0010 0020 0030 0075 0075 0150 0150 0150 0150 0150 015	1470 1470 1470 1470 1470 1470 1470 1475 1475 1475 1475 1475 1475 1475 1475 1475 1475 1475 1476 1474 1454 1343 1351 1343 1351 1343 1351 1343 1351 1343 1351 1343 1351 1355 1370 1130 1355 1370 1130 1355 1370 1355 1370 1355 1370 1355 1370 1355 1370 1355 1370 1355 1370 1355 1370 1355 1370 1355 1370 1355 1370 1355 1370 1355	S *4. S *6. SIGUA-1 SIGU	DI DI DI DI DI DI DI DI	1 1 1 1 1 1 1 1 1 1	15070 1507	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	200	
CODE NO.	Table Tabl	C C C C C C C C C C C C C C C C C C C	CAROL STO SESTO 000 0000 0010 0020 0020 0020 0073 0075 0096 0100 0125 0100 0125 0100 0125 0100 0155 0100 0155 0100 0155 0100 0155 0100 0155 0100 0155 0100 0155 0100 0155 01000 0100	1476 14	1001 1001	SIGWA-1 SIGW	D18 O18	100 100	1000000000000000000000000000000000000	S DR. 57	EVATIONS HOP ME SE 3 3	TOTAL	5 7	NO3-N	\$1 O ₄ =5:	0018	200	

CE SHIP LATE		GITUDE ES	MARSOEN	STATION TIM	YEAR	ORIGINATO	-	DEPTH CEPTH	085	WAVE	WEA- THER CODE	CLOUD		5.1	ODE ATION UMBER
CODE .		1/10		AO DAY HE	710	NO. NUM		OTTOM S'MPL'S	DIR	NGT PER SI	A	TYPE AMI	-		001
				5 24 13		D18 019		14	2.7	8 4	× 1	6 3	,	- 1	301
65 DG 435	, , , , , , ,		WATE	8 WII	ID BAR	AIR TEMP	6	NO SPEC	TAI						
			COLON	TEANS OIR	SPEED MET	ER DRY W	ET COOP	DEPTHS OBSERV	ZHORS						
			CODE	(M)	FOACE		12.0	14							
				30	15 06	1 106 0	83 7	14		L,		_			-
				,		SPECIFIC VOLUME	E A D	SOUND	02 ml/	10a=1		ND3-N	NO1-H	SI O SI	pt
MESSENGE CAS	T CARO	OEPTH IMI	7 7	s */	SIGM A-T	ANOMALT-ATO	£ 10 ²	AFFOCITA		yg = 81/7	и ц н1/1	µg - 01/1	×9 - 61/1	μ g - 01/	_
HR 1/10	STD	0000	1495	35 € 7	2675	0013 082	0000	15084							
	085	0000	1495	15967	2675	1	1	15084							
1 30	\$10	0010	1493	35<7	2675	0013069	0013	15085							
	510	0020	14 +2	3597	2670	0013052	0026	15087							
130	085	0024	1491	35570	2676			15087							
1 30	STO	0030	1492	3557	2676	0013082	0039	15088							
1 30	085	0046	1493	35572	2675			15091							
+ > -	STO	0050	1493	3597	2675	0013149	0065	15092							
1 30	0.65	0069	1492	35976	2676		0.0 - 0	15095							
	STO	0075	1491	3557	2676	0013199	0098	15095 15097							
1 30	085	00 92	1487	3555e	2675		0131	15090							
	510	0100	1462	3593	2679	0012967	0162	15072							
	STD	0125	1398	3567	2688	0012163	0102	15067							
1 30	DBS	0137	1376	35840	2690	0011915	0193								
	SID	0150	1364	3582 35778	2691 2693	0011 710	01,,	15062							
130	280	10182	1340 1339	3578	2693	0011887	0252	15064							
	510	0200	1327	3577	2695	0011854	0311	15068							
	STO	0250 0271	1318	35762	2695			15069							
1 30	08S STD	0300	1305	3573	2697	0011820	0371	15069							
1.20		10360	1257	35644	2700			15061							
1 30	280 012	0400	1209	3555	2702	0011542	0487								
130	DBS	0452	1132	35434	2707			15031							
1 20	510	0500	1037	3530	2714	0010470	0598								
130	DBS	T 0 5 4 3	0956	35215	2 72 1			14980							
130	STO	0600	0840	3519	2738	0008195	0691								
	STO	0700	0682	3513	2757	0006413	0764								
130	085	0726	0650	35120	2760			14892							
	STO	0900	0600	3507	2763	0005841	0825								
	STO	0900	0540	3501	2766	0005596	0882	14875							
130	085	10912	0534	35002	2766	2005165	0936								
	510	1000	0492	3499	2770	0005195	0936								
	STD	1100	0453	3498	2774	0004869 0004688	1034								
	STO	1200	04 26	3498	2776	0004625	1081								
	STO	1300	0408	3497	2777 2777	0004622	1128								
	510	1400	0401	3496	2777	0004072	111	14905							
130	085	T1427	0401	34953	6111										

ENCE		_			MARSDEN	STATION TIM		ORIG	INATO	r's	H143G	MAZ. OEPTH	0.0	WAVE ERVATIONS	WEA			5	NODC TATION
10.	SHIP	LATITU	DE LOF	GITUDE E	SQUAPE	IG M TI	YEAR	CRUISE	STATI	ON	TO BOTTOM	OF S'MPL'S	1	MGT PER S	- 000			N	U M 86P
NO.	CODE	٠	1/10	1/10 ° 3	-	MO DAY HP		NO ON		51.K	-	10	76	3 2	-	6 2			0020
265	DG 4	4400	N 04	045 W	149 40	05 25 1	25 1 968		20			-10		12 12	1	1 - 1 -	1		
	1		·		WA	TER WI	944	0-	TEMP	V15	ND. OBS.		CIAL						
					COLOR	TRANS DIR.	SPIED MET			ET CODE	DEPTHS	DEZERA	A TION S						
					CODE	T 1	S35 09		_	22	14								
						21	333 0.	0 1.70							_	-			T .
	MESSENGE	CAST	CARO		7 %	s */	SIGMA-F	SHORE V	IMUJO	S A O	500		0 2 ml/	PO4-P	10TA L=		NO3-N pg - al/l	51 Q4+5 ug - 01/	
	TIME	NO.	TYPE	DEPTH Imi	1 , ,	/ ""	10.00	ANOMALT	-310	x 10 ³	VELO			28 × 81/1	20120		py	-	+
	HR 1/10	-	STD	0000	1462	3554	2680	J0125	62	0000	150				1		}	1	
	125	1	085	0000	1462	35944	2680	'			150								
			STD	0010	1462	3594	2680	00125		0013	150								
			STO	0020	1462	3595	2680	00124	16	0025	150								
	125		085	0026	1462	35945	2680	0012	6.0	0030	150								
			SID	0030	1462	3595	2680	00126		0038	150								
			SID	0050	1463	3595	2680	0012	20	0000	150								
	125		DRS	0051	1463	3594€ 3595	2680 2680	0012	777	0095									
			510	0075	1462	3595	2680	3012	, ,	00,,	150								
	125		DBS	0077	1462	3593	2640	0012	321	0127	150	187							
			STD	0100	1454	35526	2580				150	387							
	125)	08S S T D	01 25	1429	3590	2584	0012	577	0159	150	J & 3							
			510	0150	1408	3588	2687	0012	367	01 70	150	080							
	125		085	0153	1406	35874	2687					180							
	12.	,	STO	0200	1386	3584	2688	0012	35c	0252		080							
	125	5	DBS	02.04	1384	35833	2688					080							
			STD	0250	1359	3580	2041	0012		0313		079							
			510	0300	1320	3573	2694	0012	117	0374		074 073							
	125	5	DBS	0306	1314	35723	2694	0.011	. 1 0	0493		047							
			\$10	0400	1201	3552	2 701	0011	010	0473		044							
	121	5	085	T0408	1189	3550 €	2702	0010	2 4 2	3602		978							
			\$10	0500	1022	3529 35255	2716 2718	0010	292	0002		490							
	12	5	085	0515	0996 0850		2730	0003	014	0099		948							
		_	STO	0600 10620	0820		2732					+40							
	1.2	5	- DBS - STD	0700	0727		2745	0007	515	0781	1.4	×17							
			510		0623		2758	0006	30€	0851		593							
	1.2	6	085	0835	0589		2762					885							
	12	,	510		0527		Z768	0009		0909		570							
			STO		0447		2775	0004	645	095		854							
	12	5	DBS	1048	0416		2778					849							
		-	STO	1100	0413		2777	0004		100		355							
			STO	1200	0407		2777	0004		104		870							
			STO		0401		2776	0004		109	-	8+8							
			STO		0399		2777	0004		114		913							
			STO				2717	300	143	117		725							
	1.2	15	0.65	T1586	0384	34535	2115				- '								

Table IX.—Continued

REFERENCE	1		1			MARSDEN	STATION	TIME		0.00	101 4 7 5			144.5									
Crey ID.	CDDE	LATITUDE	l to	ONGITUDE	50	SQUARE	1G M		YEAR	CHUISE	STATIO		DEPTH	MAX. DEPTH	01	WA	VE A TIONS	WE		DUD			NODC
CDDE NO.	\perp	1/1	0	1/10	- # C	10" 1"	MO DAY	HR, 1/10		NO.	NUMB		NOTTOM	DF S'MPL'S	DIR		PER S	1 200	se I	DES			TATION
311265	0G	4400 N	0	4100 W		149 41	05 27	170	1968	018 0	21			14	27		3	X		6			0021
						WA	TER	WIND	IAR	AIR	TEMP T	\neg	T un T		_	, I	-	^ -	. 1 -	0		1	0021
						COLOR		SPEED	MET	EN DRY	WE	COD	ND. DIS.	SPEC DOSERV	IAL ATDMS								
						CODE	DW.F	PORCE	(mb		#UL:		DEPTHS		- 110/43								
							2	7 512	12	9 117	0.8	9 7 -	14			1							
	MESSENGE		ARD	DEPTH U	.	1 10	s -/			SPECIFIC VO	LUMP	≥ △ □	sou	NO. T		Τ.			T	\neg	_		
	MR 1/10		146				1 ' "	3167	1 - A A	ANOMALT-	3187	DYN, M	VELD		01 ml/		D4=P	IOTAL-			ND3=N vg = 01/I	SI D 4 - Si ye = et/l	BH
			STD	0000		1504	3602	26	77	00128	69 (0000	150	8.8		-	_	-	-			74 - 001	-
	170	0 '	ВS	0000	'	1504	3602			00120	0, 1,	,,,,,	150			- 1					- (
			STD	0010	1	1501	3602	26		00128	23 (0013	150										
			510	0020		1497	3602	26	78	00127		0026	150										
	170	_	88	0024		1496	36024	26	19				150										
			STO	0030		1484	3600	268	0 0	001270	02 (0038	150										
	170		8.5	0048		1453	35929						150										
			STD	0050		1450	3592	268	31	001264	+1 (064	150	78									
	170		35	0072		1428	35878						150	74									
			0.15	0075		1427	3588	268	2	001255	56 (095	150	74									
	170			0096		1418	35873	268	14				150	74									
			TO	0100		1417	3587	268	4	001249	8 6	1126	150	74									
	170		STD.	0125		1409	3586	268		001243	39 C	158	150	76									
	170			0143		1404	35859						150	77									
	170		TD	0150		1393	3584	268		001239	64 (189	150	74									
	170			T0191		1338	35749						150	52									
			TD	0200		1332	3574	269		001200		249	150	51									
	170		TO	0250		1290	3568	269		001175	5 0	309	150	55									
	170		TD	0285		1251	35618						1504	+7									
	170	DE		0300		1230	3558	270		001146	4 0	367	1504	- 1									
	170		10	T03 75		1117	35403	270					1501										
	170	06		0400 0469		1072	3535	2 71		001049	3 0	477	1500										
	1,0		10	0500		0956	35221	272					1496										
	170	D6		10560		0908 0823	3517	272		000924	1 0	575	1495										
			T D	06 00		0770	35084	273		00075	_		149										
			TD	0700		0656	3508 3505	274		000791		66 L	1491										
	170	D6		0742		0616	35039	275		000662	9 0	734	1488										
			TD	0800		0571	3501	275		0005.00			1488										
			ťρ	0900		0505	3498	276 276		000588		797	1487										
	170	0.6		10926		0450	3498	276		000535	4 0	853	1486										
			ŤD	1000		0477	3497	277		00051			1485										
			ΤO	1100		0458	3497	277.		000516 000505		905	1486										
			ID	1200		0440	3497	277		000505		956	1487										
			Τρ	1300		0422	3496	277		0004 80	_	006	1488										
	170	0.6		11391		0405	34962	277		000480	A 1	055	1489										
			-			0.00	3.702	211	4				1490	τ									

REFERENCE	1 -1					1								_											
CTAY ID.	SNIP	LATITU	DE	LDI	NGMUDE \$	MAR	ARE	STAI	ION 1	IME	TEAR	_	NATOR'S	_	DEPTH	DEPT		WAV		WEA-	CLOUD			NODC	7
CODE NO.	CODE	•	1/10		1/10 2	10"	110			18.1/10	10.44		STATION		FD BDTTDM	OF	1 "	SERVAT		THER	CODES	1		STATION	
311265	OG	4404	N	04	103 W	149	41	-	\rightarrow	-	968	D18 02		-+		5'MP1			I SEA		TYPE AM	1		NUMBER	
	. ,				1	١ .	WA		_ \	WIND	_	1 10 11		Ц,		1.4	35	3 3	1	X 2	6 8			0022	
							CDLOR	TRANS	_	SPEED	METE	·	MP T	VIS	NO. OBS.		ECIAL								
							CDDE	101	DO.	POPCE	(mbe		AULA	CODE	DEFTHS	DRZER	VATIONS								
									25	505	900	0 111	083	7	14			1							
	MESSENGE TIME o	CAST	CAR	ID.		Τ.		_	_	1	+ 1		1	_1	, 			_					-		_
	H# 1/10	NO	TYP		DEPTH (m)	T	Ψ.	\$	٠/	SIGN	IA=T	SPECIFIC VOLU	IS! DYN		AETO 200		02 ml/	104		101AL-P	ND3-N	NO3-N	SI Da-S	4	13
	17.10	_	ST	0.1	0000	1.	.01	1110		-			, x	_	-			×8.	e#/l	νg - e1/1	ug = at/1	yg = 01/1	עם - פוע ∫	pH I	ć
- 1	102		085		0000		91 91	360		267		001264	000	00	150									+	71
			5.1		0010		90	360		267					150			1		1	,		ı	4	11
			5 I		0020		89	360	_	267		001268			150										
	102		DBS		0022		89	360		267		001274	4 002	25	150										
			ST		0030		75	359		267		001273	3 003		150										
	102		D85	;	0046		40	359		268		001273	3 003	8 8	150										
			SI	D	0050		42	358		268		001269	5 006		150										
	102		085	,	0069		18	358		268		001209	3 000	9	150										
			ST	D	00.75		15	356		268		001243	6 009	1 =	150										
	102		085		0092		08	358		268		001243	003	, ,	150										
			ST	D	0130	14	06	35€		26H		001232	5 012		150										
			ST	D	0125	1 3	93	358		268		001233			150										
	102		Des		0137	1.3	94	358		268		00.2330	, 01,	•	150										
			ST	D	0150	1.3	88	358		268		0012252	018	7	150										
	102		D8\$		T0184	13	70	35€	22	269		0012272	. 013	,	150										
			ST	D	0200	13	€4	358	1	269		0012131	024	ρ	150										
			ST		0250	1.3	35	357	7	269		0011 984			150										
	102		D85		0274	1.3	10							_	100										
			S T	0	0300	1.2	94	357	0	269	6	0011823	3 036	а	150	25									
	102		08\$		T0369		12	355	65	270				-	1504										
			ST	D	0400	11	60	354	9	270	6	0011135	048	3	150										
	102		085	_	0455	10		353	34	271	3				1500										
			ST	D	0500	0.3		352	2	272	2	0009684	058	7	149										
	102		DBS	~	10544	0.8		351.		272	Ħ				1494										
			ST		0600	07		350		273		0008258	067	7	1492	2.8									
	102		ST	U	0700	06		350		275	0	0007047	0.75	3	1489	98									
	102		DBS	_	0725	06		350		2.75					1489	9.2									
			STO		0800	0.5		3500		2701		0006039	160	9	1487	74									
	102		STI		0900	04		34+		276		0005366	0 47	ь	1485	8									
	102		OBS		10909	04	_	3496		2761					1405	5.7									
			STO		1000	0+		3456		270		0005214	0 92		1486	5									
			510		1100	04		3490		2771		0005093	0980	0	1487	74									
			STO			04		3496		277		0004959			1488										
	102		085		1300 11370	04		3496		2775		0004827	1079	9	148 7	2									
	. 52		003		11310	04	J O	3496	U	2777	7				1494	19									

Table X.—Observed and interpolated oceanographic data from stations taken by USCGC CASTLE ROCK at Ocean Station DELTA, 31 May-19 June 1968, prepared from NODC listing No. 31-1269 CK.

									MAX.				610110		NODÉ
REFERENCE SHIP	LATITUOE	LONGITU			TATION TIME		ORIGINATOR"	N TOP	O DEPTH	OBSERV	A TIONS	THER CODE	COOES		STATION NUMBER
CODE NO.	1/10	0411	12.10	0° 1° MO	0 0AY HR1/	9 1 968	019 001	464	3 40 FE 3	25 HG	PER SEA	72	8 8		0001
311269 CK	4349 N	0411.	- " -	WATER	WIN	BARO		VIS. 01	O. SPEC	CIAL					
				COLON	mi Dik.	METER OIL ORCE (mbs)	BOTE BOT	DEP	145	A TIONS					
					25 S	18 268									3
MESSENGE TIME 0	CAST C	ARO O	DEPTH IMI	7.5	s %.	SIGMA-T	ANOMALT-1187	₹ △ 0 OYN, M. x 10 ³	VELOCITY			OTAL-P			74~31 pH C
HR 1/10			0000	1434		2683	0012272		15064						
1 39	ים'		0000 0010			2683 2684	0012240		15064 15065						
		STO	0020	1429	3591	268 4 268 4	0012229		15066 15066						
1 39			0026 0030	1428	3590	2684		0037	15067						
1.20		510	0050 0053			2684 2684	0012291		15070 15070						
139		STD	0075	1425	3590	2685	0012330		15073 15074						
1 39			0080 0100			2685 2685	0012376	0123	15077						
139	0	85	0106 0125			2685 2689	0012107		15078 15069						
		STO	0150	1354	3579	2691		0184	15061 15060						
139		65 510	0159 0200		35778 3 57 5	2692 2691	0012110	0244	15064						
139	9 0	85 T	0213	1336		2691 2693	0011981		15065 15061						
		STO STO	0250 0300	1259	3570 3563	2698		0363	15052						
139	9 0	8 S 5 T D	0318		35593 3540	2700 2709	0010788		15047 15014						
139	9 0	BS T	0425	1067	35344	2712 2724	0009413	0576	15002 14960						
139		5 T D 85	0500 0529	0923 0874	3518 35137	2729			14946						
		STO	0600 10634	0773 0730	3506 35039	2738 2 7 43	0008112	0664	14918 14907						
139	, (510	0700	0666	3504	2752	0006823 0005789	0739 0802	14893 14877						
13	9 0	STD 185	0800 0644	0585 0555	3505 35052	2767			14873						
.,	_	STD	0900	0529 0487	3503 3500	2769 2771	0005302 0005086	0857 0909	14871 14870						
13	9 (STD BS 1	1000 T1091	0455	34974	2773		0959	14872 14872						
		STD	1100 1200	0452 0423	3497 3497	2773 2776	0004930 0004708	1007	14877						
		STO	1300	0400	3496 3495	2778 2779	0004552 0004487	1054 1099	14884						
		STO	1400 1500	0384 0374	3495	2779	0004488	1144	14906						
13	9 (065 1	11687	0372	34936	2779			14751						
							DEGINATO	oes (DERTH MA	K ,	WAVE	WEA	. cloud		NOOC
REFERENCE SHIP	LATTIUDE		SITUDE ES	MARSDEN	STATION THE		ORIGINATO	10N	TO OF	OBSE	EVATIONS	WEA THEI COO	C0089		NOOC STATION NUMBER
CODE NO. COOE	1	LONG	HUDE BS	10" 1"	STATION TIVE (GMT)	1/10	CRUISE STAT	NON BER	TO OEP	L'S DIK 1	WAVE EVATIONS	COO	E TYPE AM		NDOC STATION NUMBER
SHIP	1 2	LONG	SITUDE ES	10° 1° 149 40 WAT	06 01 1	29 1968	CRUISE STAT	HON ABER BO	764 1	H OBSE	EVATIONS	COO	E TYPE AM		NUMBER
CTEY IO. COOL	1	LONG	HUDE BS	149 40	06 01 1 ER W	29 1968 IND BA SMERO ME ON IM	CRUISE STAT	ABER BE	764 11	L'S DBL	EVATIONS	COO	E TYPE AM		NUMBER
311269 CK	4408	LONG	HUDE BS	10° 1° 10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	06 01 1 ER W	29 1968	CRUISE STAT NUA 3 019 002 RO- AIR TEMP. TER BULB BULB B 79 150 1	ODE VIL CODE	764 1:	PECIAL EVATIONS	AVATIONS	X 6	7 8	NO ₃ -N	0002
CODE NO. CODE STATE CODE NO. STATE CODE NO. CODE NO. CODE CODE CODE CODE CODE CODE CODE CODE	1, 4408	LONG	HUDE BS	10° 1° 10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	06 01 1 ER W	29 1968 IND BA SMERO ME ON IM	CRUISE STAT	ABER BE	764 1	H OBSE	EVATIONS	COO	7 8	NO ₃ -N	NUMBER
100 100	GR CAST NO.	CARO TIVE	00 00	10° 1° 1° 1149 40 1	MO DAY NO D6 O1 1 E8 W TEANS OIR 17 3 °4.	29 1968 IND BA ME ME IM STORE IM SIGMA-T 2678	CRUISE STATE NUM. NUM. NUM. NUM. NUM. NUM. NUM. NUM.	NON ABER BY	764 11 764 11 764 11 764 11 Sound velocity 15097	PECIAL EVATIONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
CODE NO. CODE STATE CODE NO. STATE CODE NO. STATE CODE NO. STATE CODE CODE STATE CODE CODE CODE CODE CODE CODE CODE COD	GR CAST NO.	LONG N 040	1/10 E E E E E E E E E E E E E E E E E E E	10° 1° 1° 149 40 1	MO DAY MI D6 01 1 ER W TEAMS OIR 17 3 *4. 3611 3611 3612	29 1968 IND BA SIRTO ME FORCE IM SIGMA-T 2678 2678	COUSE STATE OF THE PROPERTY OF	TON ABER 80 VIL VIL CODE OF A VIL VIL VIL VIL VIL VIL VIL VIL VIL VIL	764 11 NO. OBS. OBSE 14 SOUND VELOCITY 15097 15099	PECIAL EVATIONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Cop MO Cop Cop MO Cop MO Cop Cop MO Cop Co	GR CAST NO.	CARO TYPE 510 D85 ST0 ST0 ST0	OEPTH (m) 00 00 00 00 00 10 00 20	10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	MO DAY NO D6 01 1 E8 W TEANS DIR 17 3 %.	29 1968 IND BA MA POICE IM SIGMA-T 2678 2678	CEUISE NO. NUA	NAMER NAME N	OFFI OFFI OFFI	PECIAL EVATIONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
C102 10. C006 311269 CK	GR CAST NO.	CARC TIPE STD DB5 STD DB5 STD DB5 STD	00000 0010 0020 0020 0030	10° 1° 1° 149 40 1	MO DAY MI D6 01 1 ER W TEANS OIR 17 3 °4. 3611 4 3612 3612 3611 7 3612	29 1968 IND IAME FOICE IN ME FOICE IN ME	COUSE STATE OF THE PROPERTY OF	NAME NAME	150 150	PECIAL EVATIONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Cool Cool	GB CAST ST NO. 10 NO. 10	CARD THE STD DBS STD DBS STD DBS DBS DBS DBS DBS DBS DBS DBS DBS DB	O(PTH (n)) 00 00 00 00 00 10 00 20 00 28	10° 1° 1° 149 40 1	MO DAY MI DO 01 1 EE W 16ANL OSE. 17 3611 3612 3612 3612 3612 3612 3610 3698	29 1968 NO 196	Columbia State Columbia State Columbia Colu	No. No.	OFFI OFFI	PECIAL EVATIONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Cook Cook	Gal Cass S NO.	CARD THE STO DBS STO STO DBS S	OFFTH (n) OFFTH (n) OFFTH (n) OO OO OO OO OO OO OO OO OO OO OO OO OO	100 11 149 40 1 149 40 1 1530 1530 1531 1531 1531 1531 1531 1	MO DAY HI DO 01 1 EE W TEAMS OR. 17 3 ° 3611 3611 3612 3612 3612 3612 3612	29 1968 NO 196	COUSE STATE OF THE PROPERTY OF	No. No.	SOUND SOUN	FL'S DR B 19 FECIAL RVA HONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
SNIP O. SNIP COOR NO. COO	GAST NO.	CARC TIME CARC TIME STO D85 STO STO STO STO STO STO STO ST	00 00 00 00 00 00 00 00 00 00 00 00 00	169 1 1 1 1 1 1 1 1 1	MO DAY MED DO DAY MED	1961 1962	Second State Sta	No. No.	10 0 0 0 0 0 0 0 0 0	FL'S DR B 19 FECIAL RVA HONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
SHIP 10, SHIP COOR HO, CO	Gal Cass S NO.	CANC TIME STD DBS STD DBS STD DBS STD DBS STD DBS	OFF1H (m) OFF1H (m) OFF1H (m) OFF1H (m) OFF1H (m) OFF1H (m)	169 40 1 40 1 40 1 40 1 40 1 40 1 40 1 40	MO DAY MED DO DAY MED	1966 1966	Second State Sta	VIL VIL	NO. OBS OBS	PECIAL NATIONS O2 mi/I	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
SHIP 10, COOK COO	CG CAST CG CAST CG NO. 10 CG CAST CG NO. 10 CG CG CG CG CG CG CG C	CARD LONG N 040	O(PTM (m) O(PTM (m) O(O) O(149 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MO DAY MED ON THE MAN TO THE MAN	1966 1966	Columb State Columb Co	No. No.	NO. OIST	PECIAL BY A TIONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Step 10, Step Cook C	Cal Cass WNO. 29 29 29 29 29	CARC TIME STD 085 STD	01/10 (a) 1/10 (b) 1/10 (c) 1/	149 40 1530 1530 1531 1531 1526 1524 1515 1511 1502 1494 1473 1358	MO DAY MODE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF THE MALE OF T	1960 1960	Second State Sta	VIL VIL	OFF OFF	OBSE	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Step 10, Step Cook C	CG CAST CG CAST CG NO. 10 CG CAST CG NO. 10 CG CG CG CG CG CG CG C	CANO TIME STD DBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS STD OBS OBS OBS OBS OBS OBS OBS OBS OBS OBS	OFFIH (m) OFFIH (m) OOOO OOOO OOOO OOOO OOOO OOOO OOOO	169 40 40 40 40 40 40 40 40 40 40 40 40 40	MO DAY MO	190 190	Second State Sta	100 100	15097 15104 15104 15104 15104 15104 15104 1506 15056	FILS OBSE	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Cool	Gal Cast NO.	CANO 110 LONG 110 LON	O(PTH (n) 7/10 00 00 00 00 00 00 00 00 00 00 00 00 0	149 40 1530 1530 1531 1531 1526 1524 1511 1502 1494 1479 1448 1423 1358 1322 1296 1249	MO DAY MO DO OI 1 E8 W 17 17 3611 3611 3612 3612 3612 3612 3612 3612	System S	Columb State Columb Co	VIL VIL	NO. SINTENDED CONTINUE CO	DESCRIPTIONS OF THE PROPERTY O	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
SHIP 10, COOK COO	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CANC 1717 N 040 040 055 STD 08	01/10 (a) 1/10 (b) 1/10 (c) 1/	149 40 1530 1530 1531 1531 1526 1525 1511 1502 1494 1473 1358 1322 1296 1249 1211 1173	MO DAY MO DO OI 1 E	Sigma-1 Sigm	Second State Sta	100 100	764 IT OBS	Ogset/	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
SHIP 10, COOK COO	Gal Cast NO.	CAND THE STO DOES STO	00 00 00 00 00 00 00 00 00 00 00 00 00	149 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MO DAY MO DO 01 1 E	Sigma-1 2678 2679 2680	STATE STATE	VI VI VI VI VI VI VI VI	SOUNDO S	PECIAL NYATIONS	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Style Co. Style Co.	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CANO 1191 LONG 1	00 00 00 00 00 00 00 00 00 00 00 00 00	149 40 40 10 1530 1530 1531 1531 1531 1524 1515 1515 1515 1515 1517 179 1448 1423 1358 1322 1296 1249 1211 173 1086 0965 0765	MO DAY MO DAY MO DAY MO DAY MO DAY MO DAY MO DAY MO DAY	Sigma-1 2678 2679 2679 2679 2679 2680 2686 2686 2686 2686 2687 2732	Company Comp	ON AREE 44 7 4 7 1 1000 1000 1000 1000 1000 100	SOUND SWITT SOUND SWITT SOUND SWITT SOUND SWITT SOUND SWITT SOUND SWITT SOUND SWITT SOUND SWITT SOUND SWITT SWIT	Ogenizi	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Step 10, Step Cook	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CAND 100 NO 040	O(PTH (n) 7/10 53 W 00000 00000 0010 00000 0055 00075 0083 0100 0111 0125 0150 0150 0050 0050 0055 0000 00575 0000 00575 0000 00575 0000 00575 0000 00575 0000 00575 0000 00575 0000 00575 0000 00575 0000 00575 0000 00575	149 40 40 10 149 40 10 1530 1530 1531 1531 1531 1524 1515 1515 1515 1515 1515 1515 151	MO DAY MO DO ON THE MARKET OR	Sigma-1 Sigm	Security Standard	VI VI VI VI VI VI VI VI	15097 15104 15104 15104 15104 15104 15104 1507 15097 15101 15102 15104	Ogs (1) Ogs (1	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Step 10, Step Cook	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CANC LONG N 040 O40	OLFTH (m) OLFTH (m) OLFTH (m) OO OO OO OO OO	1 149 40	MO DAY MO DO 01 1 E	Sigma-1 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2679 2680 2680 2680 2687 2680 2680 2680 2687 2739 2734	Company Comp	VIL VIL	No. OFF OFF OFF	Operation of the control of the cont	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
SHIP 10, COOK COO	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CANO 110 100 100 100 100 100 100 100 100 10	00 00 00 00 00 00 00 00 00 00 00 00 00	1 149 40	No. No.	19 19 19 19 19 19 19 19	Columbia State Columbia C	VIL VIL	SOUND OFF	Ogset/I	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
SHIP 10, COOK COO	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CAND LONG N 040 O40	00 00 00 00 00 00 00 00 00 00 00 00 00	1 149 40	No. No.	Sigma-1 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2679 2679 2680 2686 2686 2686 2686 2687 2679	Company Comp	No. No.	SOUND OFF	Operation of the control of the cont	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Step 10, Step Cook	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CANC LONG N 040 O40	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 49 40 1530 1530 1530 1531 1531 1526 1524 1515 1511 1502 1494 1473 1086 1423 1358 1322 1296 1249 1211 1173 1086 10965 0762 07	MO DAY MO DE 1 17 DE 1	Sigma-1 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2679 2680	Columbia State Columbia State Columbia State Columbia Columbi	VI VI VI VI VI VI VI VI	OFF OFF	O326 145 O34 O35 O35 O35 O35 O35 O35 O35 O35 O35 O35	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Step 10, Step Cook	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CAND LONG 100	00 00 00 00 00 00 00 00 00 00 00 00 00	1 149 40	No. No.	Sigma-1 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2679 2680	Columbia State	10000 100000 10000 10000 10000 10000 10000 10000 10000 100000 100000 100000 100000 100000 100000 100000 1000	SOUND OFF	O 2 ml/I	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Step 10, Step Cook	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CAND 100 NO 0440 NO 0440 NO 0450 STO 085 STO 0	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 49 40	No. No.	Sigma-1 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2679 2679 2679 2679 2679 2679 2679 2679 2679 2679 2774 2775 2773 2775	Company Comp	ON A SEE 10 10 10 10 10 10 10	SOUND OFF	O2 ml/l	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
Step 10, Step Cook	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CAND LONG N 040 O40	OFFIN (a) OFFIN (a)	1 1 1 1 1 1 1 1 1 1	No No No No No No No No	Sigma-1 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2679 2680 2680 2680 2680 2680 2687 2679 2680 2679 2680 2679 2680 2679 2680 2680 2687 2679 2680 2687 2679 2680 2687	Company Comp	10000 100000 100000 100000 100000 100000 100000 100000 100000 1000	SOUND SWITT	O 2 mi/l	PO4-P	1 HE COO	7 8	NO ₃ -N	0002
SHIP 10, COOK COO	29 29 29 29 29 29 29 29 29 29 29 29 29 2	CAND LONG N 040 O40	OFFIN (m) OFFIN (m)	1 149 40	No No No No No No No No	Sigma-1 2678 2678 2678 2678 2678 2678 2678 2678 2678 2678 2679 2679 2679 2679 2679 2679 2679 2679 2679 2679 2679 2773 2775	Columbia State Columbia State Columbia State Columbia Columbi	10000 100000 100000 100000 100000 100000 100000 100000 100000 1000	No. OFF	O 2 mi/l	PO4-P	1 HE COO	7 8	NO ₃ -N	0002

Table X.—Continued

ID. CODE LA		ONGITUDE BOUTIONO.		STATION T (GALT)	YE.		UISE	STATION		DEPTH TO	MAX. DEPTH OF	085	WAVE EXVATIONS		CODE			NOOC
	1/10	1/10	10, 1,	MC DAY H			10.	NUMBER		BOTTOM	S'MPL'S	DIIL	HGT PER S	CODE	TYPL AM	7		NUMBE
1269 CK 43	53 N 0	4107 W	149 31	06 02 1	153 19	0 8 D	19 00	3		4663	15	19		4 X6	6 8			000
			WA	TER Y	VIND	BARO-	AIR TE	MP °C	Τ,	NO.	·	·		'	' '	1	,	
			COLOR	TRANS DIR.	SPEED	METER	DAY	WET	CODI	O85.	SPEC OBSERV							
			CODE		FOICE	(mba)	BULE	BULB	↓_	DEPTHS								
				19	S1 8	140	156	150	6	14								
MESSENGE CA	CARD	DEPTH (m)	r tc	s ·/	SIGMA-	. SPE	CIFIC VOLU	ME S	Δο	501	JND		PO4~P	TOTALER	HO2=N		Ī	.T
HR 1/10 T). TYPE			,	SIGMA-	-1 41	NDMALT-XI	6' D	YH, M X 10 ³		CITY	03 ml/l	VB - 01/1	PB - 01/1	NB - 01/1	NO3-N P2 - 01/1	21 O4-	
	STD	0000	1451	3588	2677	0	01284		000	150	26.9		+	-	_	-		+
153	0.85	0000	1451	35875	2677			- -		150					1	l		
	STD	0010	1448	3589	2679		01269	8 0	013	150								
	STO	0020	1447	3590	2680	01	01263		025	150								
153	DBS	0024	1446	35902	2680					150	072							
	STO	0030	1446	3591	2681	0.0	01257	1 0	038	150	073							
153	OBS	0047	1445	35914	2681					150	75							
	STD	0050	1444	3591	2682	00	01256	1 0	063	150	176							
153	DBS	0072	1439	35916	2683					150	78							
1.50	STD	0075	1439	3592	2683	00	01251	в 0	095	150	78							
153	085	0095	1435	35912	2683					150								
	ST0	0100	1434	3591	2683		01253		126	150								
153	085	0125	1429	3590	2684	0.0	012561	. 0	157	150								
133	210	0150	1425 1412	35896	2684					150								
153	085	0192	1340	3588 35778	2686	0.0	01244	9 0	188	150								
•	STD	0200	1337	3577	2693	0.0	31100			150								
	STD	0250	1309	3573	2696		011884 011762		249 308	150								
153	085	0285	1277	35680	2698	00	111102	. 0.	908	150								
	STO	0300	1255	3564	2700	0.0	011504	. 0	367	150								
153	085	T 0378	1140	35450	2707	0.0	11130-	• 0.	901	150								
	STD	0400	1110	3540	2709	ac	10806	. 04	78	150								
153	OBS	0470	0999	35265	2718	-		, ,	,,,	149								
	STD	0500	0934	3520	2724	0.0	09448	3 09	79	149								
153	088	T0559	0822	35103	2734					149								
	STO	0600	0764	3509	2742	0.0	07755	0.6	665	149								
	212	0700	0646	3505	2755	0.0	06488	0	137	148								
153	085	0746	0603	35039	2760					148								
	STD	0800	0571	3503	2763	0.0	0573	0.7	198	148								
163	510	0900	0520	3501	2768	00	05330	0.6	353	148	67							
153	085	10950	0497	35004	2770					148	66							
	STD	1000	0477	3500	2772		104 955		05	148								
	STO	1100	0443	3498	2775		04770		53	148								
	STO	1200	0417	3497	2777		104609		000	148								
	STD	1300	0401	3496	2777		04572		146	148								
153	DBS	1400 T1457	0393	3496	2778	0.0	104559	10	192	148								
100	003	16431	0393	34954	2778					149	07							

REFERENCE	SHIP		_ 1		- 1	MAR	SDEN		IOH 1				DRIGINA	TOR'S		DEPTH	MAX		WAVE		WEA.	CLOUD	_			
CDDE NO.	CODE	LATITU			GITUDE 2	3 200	ARE		GMT		YEAR	CHUISE	ST.	ATION		10	DEPTH	Q85	ERVA TIO	as [THER	CODES		- 1 -	NODC	
-			1/16		17 (0	10°	1"	MO	YAC	12,1/10		NO.	N.L	MIER	- 1	BOTTOM	S'MPL"	OIR	HGT FIR	SEA	CODE	TTFI AM	-		UMBER	
311269	CK	4+02	N	040)51 H	149	40	06	3	128	1968	D19	004		- 1	4846	16	19		3	X4	x 9		_	0004	
							WA	ER	1	VINO	1		IR TEM!	. *	_					- 1			1	- 1	0001	
							COLOR	TRANS.		SPEED	MET	o-	-		V15.	NO.		CIAL								
							CODE	sm1	DIR.	1010				EULB		DEPTHS	CHIZEKA	A TIOH S								
									22	510	15	2 1	56	156	6	14										
	MESSINGI						-	-	<u> </u>	4				_	_											-
	TIME	U NO	CAI		DEPTH (m)	1	10	5	٠/	SIG	M A -1	SMCIFIC	VOLUMI	t Si	A 0.	sou		O 2 ml/l	PO4=1	101	14 L-P	NO2-N	NO3-N	\$104-\$		3/
	H# 1/10		-	`		_						ANDM	ALT-110		163	VELO	CITY	02 ////	1 pg - 01	1 va	· 01/1	μg - 61/1	μg = 01/1	20 - al/	pН	le l
			5.1		0000	1	532	360	13	26	71	001	3425	00	00	150	197			_						$^{+}$
	128	3	0.63		0000	1	532	360	27	26	71			1		150			1		- 1	- 1	1			
			S 1		0010	1	525	360)4	26	73	0013	3213	0.0	13	150	196									
			51		0020		519	360	15	26	76	0013	3044	00	26	150	196									
	128	3	089		0026	1	515	360	155	26	77					150	196									
			S 1		0030	1	513	360)5	26	77	0012	933	0.0	39	150	96									
			5.1		0050	1	500	360	3	26	79	0012	852	0.0	65	150	95									
	128	3	DBS		0052	1	479	360	32	26	79					150										
			5 1		0075	1	484	360	1	26	80	0012	803	0.0	97	150										
	128	3	089		0079	1	462	360	0.0	26	80					150	93									
			SI		0100	1	472	359	8	26	81	0012	810	01	29	150	93									
	128	3	085		0104	1	+€8	355	68	26	81					150	93									
			ST		0125	1	420	358	8	26	d4	0012	539	01	61	150	80									
			ST		0150	1	376	358	0	26	87	0012	303	01	92	150	68									
	128	3	0.83		0158	1	365	357	84	26	88					150	66									
			ST		0200	1	540	357	5	26	91	0012	090	02	53	150	64									
	128	l	083		10210	1	3 3 1	357	40	26	92					150	63									
			ST		0250	1.	2 t 3	356	0	26		0011	817	03	13	150	45									
			ST		0300		.78	354		27	00	0011	440	03	71	150	22									
	128		085		0316		151	354	0 0	27						150	15									
			ST		0400		006	352		27		0010	3 00	04	30	149	75									
	128		0.82		T0427		962	351		27						149	62									
			ST		0500		340	350		27.		0008	869	0.5	75	149	31									
	128		085		0533		304	350		27.						149	19									
			ST		0600		732	350		27		0007	440	065	57	149	03									
	128		085		T0538		593	350		2 7						143	94									
			2.1		0700		525	350		27		0006	342	072	26	148	77									
			ST		0800		39	349		276		0005	606	0.78	36	148	58									
	128		ORS		0864		00	349		27						148	52									
			ST		0900		92	345		27		0005		084		140	55									
	1.20		ST		1000		73	349		27		0005	051	089	91	148	54									
	128		085		T1084		57	349		271						148	72									
			SI		1100		54	349		27		0004		094		148										
			5.7		1200		37	349		27		0004		048		148										
			ST		1300		21	349		277		0004		103		1489										
			ST		1400		07	349		277		0004		108		1490										
	128		085		1500		194	349		277		0004	712	113	1	1491										
	120		กดว		11627	0 :	80	349	42	277	8					149	30									

SH		LATITUDE	LONG	SITUDE S	MARSDE SQUAR	E E	STATION TIME	YEAR		TIDN	TO BOTTOM	DEFTH OF	_	WAVE ERVATIONS		THER CODE	CLOUD		514	ODC ATION IMBER
co	DE.	1/10	1 .	1/10	10"	1" M				MBER		3 1417 E	0.2	HGT PER SE	$-\tau$	×1	8 6	-	0	005
C	K 4	3585N	041	04 H	149	31 0	6 04 10	0 1968	019 005		4608	44	02	1 ,	•	^ 1	1 0 10	1	-	
			1	,	· [WATER				VII	NO. OBS.	SPE	CIAL							
							MAY DIE	OF (mb)		WET COD	DEPTHS	DBSERV	2 NOT A							
						DDE		12 22		133 7	21	-								
							32 S	12 22	0 1111		1	١		-		_	_			
M13	SSINGS	C+12 C	ARD		, ,		5 -/	SIGMA-T	SHICIPIC VOLUM		SO	UND	0 2 ml/	PO ₄ =P		(145−6 - 01/1		NO3-N µg - el/l	\$1 O4-\$1 yg = 01/1	şН
1	SSENGE	NO. T	TPE	DEPTH (m)	1 '	١ '	,	310 m H = 1	4 NOM ALT-110	x 10 ³	711	DCITY		µд = ш1/1	1 "	. 0171	29 - 001	pg - 6171	1	
HR	1/10		10	0000	15	30	3600	2669	0013566	0000		096								
	100	l oi		0000	15		36002	2669				096								
	100		10	0010	15	17	3602	2674	0013189	0013		093 092								
			510	0020	15		3603	2677	0012 936	0026		092								
	100	0	3 S	0026	15		36034	2678	0012880	0039		095								
			510	0030	15		3603	2678 2678	0012925	0065		095								
			018	0050	15		3603 36028	2678	0015 35 3	000.		096								
	100		BS	0052	15	04	3605	2679	0012883	0097		100								
	100		STO	0075 0079		04	36055	2679			15	101								
	100		85 5 T O	0100		66	3598	2682	0012685	0129		092								
	100		85	0105		58	35965	2683				090								
	100			0125	14	36	3593	2685	0012503			085								
		ST0 0 08S		0150	14	09	3589	2687	0012314	019.		080								
	100			0158		00	35870	2688		0.25		078 5068								
				0200		351	3577	2690	0012163	025		066								
	100			0211		334	35744	2691	0012052	031		5065								
			STO	0250		320	3572	2693 269 7	0011794			5056								
			STO	0300		270	3564 35611	2698	001117	. 03.		5052								
	100		BS	0313		082	3532	2708	001089	048	7 15	5003								
	100		STO BS	0400 10413		056	35280	2709			1	4995								
	100	U	STO	0500		882	3509	2724	0009408	058		4944								
	100		BS	0513		858	35072	2726				4937								
	100		STO	0600	0	714	3497	2740	000789	067		4894								
	100) (85	10605	0.	707	34969	2741				4892								
			STO	0700		610	3497	2754	000657	7 074		4870 4856								
	100) (85	0799		5 35	34974	2763	000567	2 080		4856								
			510	0800		5 35	3497	2763 2769	000523			4856								
			STO	0900	_	494 463	3498 34979	2772	000,23			4858								
	100) (185	0991		463 461	34919	2772	000490	4 091		4859								
			STO	1000		442	3497	2774	000480	9 096		4868								
			STO	1200		425	3497	2776	000472	7 101		4878								
			510	1300		410	3496	2777	000466			4888								
			STO	1400		398	3496	2778	000464	6 110		4900								
	100) (385	T1478	3 0	390	34953	2778	0.004	0 116		4909								
			STO	1500		384	3495	2778	000466			4950								
			S T O	1750		377	3495	2779 2779	000472	5 120		4973								
	12	9	OBS	11904		370	34945 3495	2780	000481	3 13		4987								
		_	STO	2000		1366 1345	3493	2782	000.01			5047								
	12	7	286	T 2401		338	3494	2783	000480	6 16	27	5061								
	, ,	0	STO OBS	290		310	34941	2785				5118								
	12	4	085 S T O	3000	•	303	3494	2786	000463	8 18		15132								
	12	3	085	T340		277	34931	2787				5191								
	12		085	T 391		243	34914	2789				15266								
			STO	400		242	3491	2789	000441	3 23		15281								
	12	9	085	441		236	34906	2789				15352 15350								
			OBS	1444		25.20	34908	2789												

Table X.—Continued

	LATITUDE	LO	NGITUDE 5	MARSOEN SOUARE	STATION I	TME		NATOR'S STATION	DEPTH	MAX. OEPTH OF	OBS	WAVE EVATIONS	WEA	CLOUC			NODC
NO.	1/	0	1/10	10" 1"	MO DAY	R.1/10	NO.	NUMBER	BOTTOM	S'MPL'S	D.B.	HGT HE S					NUMBER
11269 CK 4	403 N	04	057 H	149 40	06 05	129 196	B 019 00)6	4709	14	24		4 X1	66		-	0000
				_		WIND	RO- AIR T	MF C	NO.	/***			'	, ,		1	
				COL	R TRANS DIR		ETER DRY	WET COO		SPEC AVERVA	TIONS						
					21		40 156	133 7	14								
MESSENGE	CAST	ARD	T		+	┪			17 1	-			_				_
		TYPE	DEPTH (m)	1 6	s °4.	SIG M A - T	SMCIFIC VOL	107 OYN. A	. SOU		D; m1/1	PD4~F ug = e1/I	101AL-1		NO ₁ -N	\$10,-5	
17.0	_	STD	0000	1546	3600	2666	001390	x 10 ³				7,	34 - 0.71	PV - 001	yg - at/l	μg - α1/	1
129		85	0000	1546	36002	2666	1001340	7 0000	151					1		İ	1
		STD	0010	1528	3600	2670	001354	0 0014									
		STO	0020	1514	3601	2673	001325										
129	0	BS	0024	1510	36007	2674		- 0021	150								
		STO	0030	1508	3602	2676	001306	1 0040									
129	D	8.5	0048	1498	36038	2679		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	150								
		ST0	0050	1496	3603	2679	001279	6 0066									
129		8.5	0071	1480	36007	2681			150	92							
		510	0075	1480	3600	2681	001272	7 0098	150	92							
129		3.5	0096	1473	35990	2681			150	93							
		STD	0100	1469	3598	2681	001274	8 0130	150	93							
		STD	0125	1440	3593	2684	001258	5 0162	150	87							
129		3.5	0142	1419	35893	2685			150	82							
1.20		0.15	0150	1407	3587	2686	001241	9 0193	150								
129		3.5	10189	1352	35782	2691			1506								
		Q T S	0200	1343	3577	2692	001200										
129	D.	OTO	0250	1294	3569	2696	001176	0 0313	1509								
129		5TO	02 84 03 00	1254	35622	2698			1504								
129	0.0		T0382	1228	3558	2700	001142	6 0371	1504								
127		.TD	0400	1107	35399 3538	2709	201.053		150								
1 29	0.8		0472	0992	35275	2711 2720	001057	6 0481	1500								
167		TO	0500	0935	3522	2725	002021		1498								
129	0		T0561	0820	35121	2736	000931	8 0581	1496								
•••		TD	0600	0749	3510	2745	000745	7 0//5	149								
		To	0700	0606	3504	2760	000600		1491								
129	DE		0756	0552	35016	2765	000000	0 0132	1486								
		TD	0800	0541	3500	2765	000555	9 0790	1489								
	5	TO	0900	0516	3497	2765	000557		1486								
129	0.6		T0952	0504	3495B	2766	000001	. 7045	1486								
		TO	1000	0493	3496	2767	000545	9 0901	1487								
	2	TD	1100	0471	3496	2770	000525		1488								
	S	TO	1200	0450	3497	2773	000506		1488								
	5	TD	1300	0430	3497	2775	000487		1489								
	\$	FΟ	1400	0411	3497	2777	000469		1490								
129	0.6	\$	T1430	0406	34974	2778			1490								

REFERENCE				_		Τ.	1		4.7			_						-							_	-,-				
CTET ID.	CODE	LATITU	10E	LOP	GITUQE	ALC: O	301	SDEN	STA	TION T	IME	YE.	All		ORIGIN		_	_	DEFTH	MAX.		WA BSERV			WEA		LOUD			NODC
CODE NO.	CODE		1/10		1/10		10*	TTP	MO	DAY	IR.1/10			CRUI!		IMUN			BOTTOM	OF S'MFL*			PER		COO		PLAM	1		MOITAT2
311269	CK	4401	N	04	100 W		149	41	06	06	123	19	168	01	9 00	7			4627	15	24		1	4	X 4		9	1	-	0007
						1		WA	TER	7	MIND	4	BARC	-	AIR TE	MF Y		_	NO.	-	1 -	٦' '	1	•	- 1	1 '	, ,	1	- 1	0001
								COLOR		DUL	SPEE		METE		DRY	WE	T c	VIL	085.	SPE	CIAL									
								0005	Gar. 5		FORC	35	(mba		BULE	#UI	.1		DEFTHS	0 0 3 2 5 4 4	- 11011	1								
										23	S1 8	3	190) []	161	16	1 5	5	14			7								
	MESSENGE	CAST	CAL	10			Τ.			_	Т	_			IC VOLU		5 /	0	1			4		_						-r
	HR 1/10	NO.	TYI		DEPTH	(m I	'	~	5	٠/٠.	210	M.A.	-1		MALT-EI		OYN.	M.	VELO		0 2 ml		104=F g = 61/1		TAL-P		7-N - 01/I	NO ₂ =N ug - at/l	\$1 O 4 - 01	
		+	SI	n n	000	0	1	5 38	36	0.2	2.	69	-	001	267		_		150	20				Ψ.	-		- 40.	MB - 001	pg - 05	'
	123	3	089		000			538		024		69		001	1357	5	000	JU	150										1	1
			S 1		001			537	36			70		001	1359		001	4.	151											
			51	D	002			536	36			70			360		002		151											
	12	3	OB9	5	002			536		024		70		501			502		151											
			S 1	0	00.3	0		521	36			73		001	3336	5	004	. 1	150											
	123	3	089		004	7		495		012		78				-		•	150											
			ST	D	005	0	1	495	36	02		79		001	2841	3	0 06	. 7	150											
	123	3	089		007	1	ī	495	36	C24	26	79							150											
			ST	D	007	5	1	494	36	02	26	79		001	2904		009	9	150											
	123	3	089		009	5	1	484	36	200	26	80					-		150											
			S 1	D	010	0	1	483	36	00	26	80		001	2832		013	1	150											
			S 1		012	5	1	459	35	9.8	26	83		001	2619		016	3	150											
	123	1	ORS		014	4	1	440	35	946	26	85							150	90										
			ST		015			434	35	93	26	85		001	2536	,	019	4	1508	89										
	123	l .	085		1019			3 ರ 2		624	26	58							1507	7 b										
			ST		020			367	35	79	26	88		001	2337		025	7	1507	74										
			5.1		0251			279	35		56			001	1980) (331	7	1509	50										
	123	•	085		029			214		508		97							1503	34										
	100		51		030			207	355		26			001	1615		337	6	150	33										
	123		085		10399			0÷0		386	27								1500	06										
	1 2 2		ST		0400			080	35		27			001	0415	- 1	348	7	1500) 3										
	123		OBS		049			906		180	27								1495											
	123		ST		0500			944	351		2.7			000	9014	. (058	4	1494											
	1,23		ORS		1059			7-5	350		27								1490											
			12		0600			737	350		27				7668		100		1490											
	123							525	350		27			000	6371	(073	7	1437											
	123		085		0756			546	350		27							_	1466											
			ST		0900			544 504	350		27				5554		079		1486											
	123		085		0999			471	350		27			000	5193	(185	1	1485											
	14.		5.1		1000			469	349		27			000	4 03				1486											
			ST		1100			440	349		27				4926		90		1486											
			ST		1200			17	349		27				4658		94		1486											
			ST		1300			398	34		27				4536		99		1487											
			ST		1400			366	349		27				4533 4542		04		1488											
	123		OAS		T1488			379	349		27			000	4242	1	0.3	0	1489											
			33		. 1 700	_	0.	, , ,	34,	00	21	10							1490	0										

								MAX			CLOUD	MODE
REFERENCE SHIP LATITU		GITUDE 30	MARSOEN SQUARE	STATION TIA	TEAR	CRUISE STATI	ON	DEPTH DEPTH OF BOTTOM S'MPL'S	DIE HGT PIR S	WEA- THER CODE	CDDES	STATION NUMBER
CODE NO. CODE	1/10	1/10 3	10" 1"	AD DAT HE			\rightarrow			4 X2	6 8	0008
311269 CK 4416	N 041	143 W	149 41 (05 07 1	25 1968			+693 37	20	1	0 10 1	,
31110			WAT	e w	IND BAR		VIS	NO. SPEC				
			COLOR	TRANS DIR	OF UMB	1 BULB BU		DEPTHS OFFEET	L TIONS			
				1.7	\$23 12	0 167 1	51 7	11		г т		
MESSENGE CAST	CARD TYPE	DEPTH (m)	1 %	5 %.	SIG M A -T	SPECIFIC VOLUME	¥ 003	VELOCITY SOUND	D2 ml/l PO4=P pg - 81/l		NO2-N NO3-P vg - al/l vg - al/	
HE 1/10	STO	0000	1583	3612	2667	0013639	0000	15114		1	1	
1 126	085	0000	1583	36121	2667	1	'	15114				
125	SID	0010	1582	3613	2667	0013810	0014	15115				
	510	0020	1580	3613	2668	0013783	0028					
125	085	0021	1580	36129	2668			15116				
123	510	0030	1568	3614	2671	0013470	0041	15114				
125	085	0042	1556	36155	2675			15113				
127	SID	0050	1554	3615	2670	0013128	0068					
125	085	0063	1550	36151	2076			15114				
	STO	0075	1542	3614	2677	0013051	0101					
	STO	0100	1524	3611	2679	0012962	0133	15111				
125	085	0121	1510	36087	2680		0165					
• • • •	STO	0125	1508	3608	2680	0012917						
	STO	0150	1493	3605	2681	0012894	0198	15109				
125	085	T0162	1483	36028	2682	0013434	0262					
	STD	0200	1430	3592	2685	0012674	0200	15084				
125	280	0240	1379	35820	2688	0013/97	0325					
	STO	0250	1371	3580	2688	0012487	038					
	510	0300	1318	3569	2691	0012369	030	15065				
125	085	T0323	1287	35639	2693	0011262	0509					
	STO	0400	1155	3545	2704	0011202	0,00	15029				
125	085	0403	1149	35442	2705			14976				
125	085 •STD	T0489 0660	0970 0667	35242 35007	2721 2749	0007042	074					

NCE	SHIP	LATITU	DE L	DHGITUDE	₩ 00 10 10 10 10 10 10 10 10 10 10 10 10	MAPSDEN SALUDZ	STATION TIM	E YEAR	DRIGINA CRUISE ST	ATION	DEPTH TO BOTTOA	QF	OBS	WAVE ERVATIONS	TH CO	ER C	000 2300		57	ATION UMBER
ID. NO.	CODE		1/10	1/10	P호	10" 1" A	AD DAY HR.	1/10	NO NI	meen		3 MIT L	_	HGT PTP SI	•					0009
269	CK	4401	_	4051 W		149 40 0	6 08 1.	24 1968	019 009	4	700	15	27		5 X	1 0	5		,	,,,,,
207	CK	- 101	., 1 .			WAT	9 WI	ND BAR	O- AIR TEM	UTE	NO.	598	CIAL							
						COLOR		SPEED MET	ER DRY	WET CODE	OBS. DEFTHS	DESER	ZHOH A							
						CODE	(m.)	FORCE IMB			-	+ -								
							2.5	\$16 15	0 128	111 7	14	<u> </u>			_	-				
									SPECIFIC VOLUM	E A D		ONU	02 ml/	PO4=F	10141		2-H	NO3-N	\$1 Q a = \$1 ug + at/1	рн
	MESSENG TIME	CAST	CARD	DEFTH	(m)	1.2	5 *4.	SIGMA-T	ANOMALT-10	x 103	VE	LOCITY		PB - 61/1	#R + 8	1771 100	· al/l	μg - αt/l	pg - dist	_
	HB 1/10	0				14.00	3587	2666	0013874	0000	15	084							ļ	ļ
		.1	STO			1499	35870	2666	100130.	1	15	084		1	,					
	12	4	085	000		1497	3587	2667	0013869	0014	15	085								
			SIC			1495	3587	2667	0013856		15	086								
			085	002		1494	35868	2667			15	087								
	12	4	510			1480	35 87	2670	0013568			083								
			510			1431	3589	2683	0012469	0067		071								
	12		085	005		1430	35892	2683				5071								
	12	. ~	STO			1422	3589	2685	0012359	0099		5072								
	12	4	085	007		1+22	35891	2685				5072								
			STO	010	0	1411	3588	2686	001230	0129		5072								
	1.2	24	280	010	1	1410	35874	2686				5072 5074								
			SII	012	25	1402	3586	2686	001232			5073								
			STO	015	0	1387	3584	2688	001220	0191		5072								
	1.2	24	085	015		1386	35843	2689	001194	8 0251		5064								
			ST			1338	3576	2692 2693	0011 94	0274		5063								
	1.2	24	088	1020		1336	35761	2695	001182	4 0311	-	5053								
			ST			1286	3566 3556	2700	001145			5038								
			ST			1222	35553	2700	001113			5038								
	1.7	24	085	0.30		1060	1533	2712	001042	8 0478	3 1	4995								
			ST	-		1057	35328	2713			1	4995								
	1 -	24	DBS ST			0891	3515	2727	000908	3 0576	5 1	4948								
	,	34	185			0891	35154	2727				4948								
		24	085			0740	35048	2742			_	4904								
	1.	24	ST			0733	3505	2743	000760		-	4903								
			ST			0639	3503	2754	000656		-	4882								
			51			0565	3501	2762	000584	2 079		4869								
	1	24	085	-		0565	35005	2762			_	4869								
	•		ST		00	0515	3499	2767	000541			4865								
			ST	0 10	00	0473	3498	2771	000505	1 090		4864								
	1	24	085			0471	34978	2771	0.000.01	2 095		4874								
			5.7			0456	3497	2772	000501	_		4834								
			ST			0440	3496	2773	000498			4894								
			ST			0+25	3495	2774 2776	0004 97		-	4904								
			ST		00	0409	3495	2778	000472			4914								
			51		00	0343	3495 34948		000412			4917								
	1	.24	085	T15	26	USHI	34740	2110												

SHIP		NGITUOE 30	MARSDEN	STATION TH	ME YEAR	ORIGIN A		DEPTH	M AX DEPTH	CHU	WAVE ENOTIAVE	WEA-	CLOUD			ODC
CODE LAT	TUDE LC	NGITUOE BY	10" ("	MO DAY H			ATION RIEML	BOTTOM	0.6		HGT PER ST	0000	TTPI AM		31 N	LATION
	-	050 H			54 1908	+		4755	15	28	3		8 6	-	+-,	001
03 CK 43.	** 14 0 *	,030 H	WA			_ AIR TEM			1,7	1 20	1 1 -	' ^ •	1010	1	Ι,	001
			_		SPEED MET	U-	VIS	NO.	SPE	CIAL						
			COLOR	IMI DIR.	FDECE (mb		WET COD	DEPTHS	OBSERV	ATIONS						
				2.8	526 10	2 111	094 8	14								
MESSENGE CAS			1			SPECIFIC VOLUM	. 3 ^ n	1	UND							
TIME OF NO	ST CARO TYPE	OEPTH (m1	1.5	2 .4"	SIGMA-T	ANOMALT-EIR	. S △ D N N N 10 ³	. VELC	DCITY	03 41/1	PO4=P 20 = 87/I	101AL=P	NO3-N 28 - 41/I	NO3-N yg - et/l	SI D 4-51	p+
HB 1/10	5.10	0000	1543	3 4 0 0	2	0013640	_	_	104		-		-			
1.54	STO	0000	1561	36080	2668	0013660	0000	151	106							
154	085	0010	1561 1562	36080	2668 2668	0013702	0014									
	510	0020	1563	3608	2668	0013762										
154	085	0026	1563	36082	2668	0013142	0021	151								
1 24	STO	00 30	1561	3610	2670	0013510	0041									
	STO	00 50	1549	3616	2678	0012948										
154	DBS	0050	1549	36164	2678	0012 / 10	0000	151								
154	085	0072	1535	36139	2679			15								
	STD	0075	1534	3614	2679	0012938	0100									
154	085	0095	•	36114			- •									
• • •	\$10	0100	1522	3611	2680	0012913	0132	151	111							
	STO	0125	1505	3607	2680	0012926										
154	085	0140	1492	36048	2681			151								
	STO	0150	1481	3602	2682	0012859	0197	15	105							
154	085	T0185	1443	35946	2684			15	J98							
	STO	0200	1421	3550	2686	0012634	0261	150	092							
	STO	0250	1361	35 79	2690	0012358	0323	150	080							
154	085	0276	1339	35756	2692			150	076							
	STO	0300	1331	3575	2693	0012200	0384	150	077							
154	085	T0369	1307	35724	2696			150	081							
	STO	0400	1259	3502	2697	0011991	0505									
154	085	0465	1137	35412	2705			150								
	510	0500	1045	3530	2713	0010611	0618		006							
154	085	10560	0906	35154	2725				963							
	0.15	0500	0830	3510	2733	0008698										
	STO	0700	0678	3501	2748	0007239	0795									
154	085	0750	0621	34984	2753				883							
	ST0	0800	0594	3500	2758	0006274			880							
	STO	0900	0544	3503	2767	0005502	0921	148								
154	085	0942	0526	35037	2769				877							
	STD	1000	0503	3503	2772	0005075										
	STO	1100	0468	3502	2775	0004807			879							
	STO	1200	0442	3501	2777	0004650			885							
	STO	1300	0422	3500	2778	0004586			893							
154	STO	1400	0410	3498	2778	0004612	1163		905							
154	abs	T1454	0407	34977	2778			14	913							

FERENCE ID.	SHIP	LATITUDE	LON	GITUDE 58	MARSOER		STATIO (G)	N TIA		rear	CRU	DRIGIN	ATDR'	N	DEPTH 10	DEPTH	001	WAVE ERVATIONS	WEA	CLOUD			NDDC IATION	
NO.	CODE	1/1	10	1/10 2	10" 1	- 1	O DA	YHA	1/10		H		NUME		NOTTON	S'MPL	S DIR.	HGT PER SI	CODE	TTPL AND	7		UMBER	
11269	CK	4346 N	04	034 W	149 3	0 0	6 12	2 1	21 1	968	01	9 01	1	1	4764	14	31		3 ×1	8 4			0011	
					<u></u>	WATE	R	w	NO	BARC	ή.	AIR TE	WP TO		ND.	1		, , ,	'			'		
					CO	LOR	RANS.	DIR.	SPEED	METE	R	DRY	WE	CODE	O a C	OBSSES	CIAL VATIONS							
					CO	OF	(de)		FORCE	(mba		BULB	BUL			_								
							4	8 2	\$20	240	0	100	07	2 8	14									
	MISSENGE	CASE	0440		rt			,			SPEC	CIFIC VOLU	110	₹ A D	0.2	UND		PO 4-P	FOTAL-P	NO2-N	NO3-N	51 O4-Si		s
	HR 1/10	ND.	TYPE	DEPTH (m)	, .	- 1	\$ "/		SIG M.	A -1		DM 417-31		E 103		OCHY	0 2 m1/4	90 - 01/I	MB = 01/1	ug - at/1	NB - 01/1	ug = 61/1	pH	C
	17.10		STO	0000	150	7	3607	7	268	a	0.0	01261	1	3000	15	J89		_		_	_		-	H
	121		65	0000	150		3606		268		•		•	3030		039		1		Į.	1			11
			SID	0010	150		3607		267		0.0	01264	5	0013		091								
			STO	0020	150		3607		268			1267		0025		093								
	121		85	0022	150		3606		268		-		-	JOL J		093								
			510	0030	150		3607		267		0.0	01271	2	0038		095								
	121		85	0040	150		3606		267		0.0	112 (11	_	0036		096								
	121		SID	0050	150		3607		267		0.0	01277	a .	0063		096								
	121		85	0063	150		3007		268		0.0	312 (1	7	0003		100								
	121		STD	0075	150		3607		268		0/	01280	2	0075		101								
	121				150						00	11280	a	0075										
	121		8 S S T D	0081			3607		268		0.4		,	0120		102								
	1 2 1			01 00	150		3606		268		U	01287	۷ .	0128		106								
	121		85	0123	151		3609		268		2.0		,	0110		110								
			STO	0125	150		3009		260			01291		0160		110								
			STO	0150	148		3604		268		00	01 2 7 5 5	>	01 72		106								
	121		85	0166	147		3601		268					0.75.		104								
			STO	0200	140		3600		268			01271		0256		107								
			STO	0250	1444		3598		268		00	01271	6	0319		110								
	121		88	0252	144		355		268				_			110								
			510	0300	136		357		264		0.0	11247	9	0382		988								
	121		65	10338	131		3561		504		_		_			076								
			STO	0+00	129		35.69		269		0 (01210	1	0505		380								
	121		BS	0425	125		3543		269							072								
			510	0500	105		3530		271		00	01085	3	0620		011								
	121	0	85	10508	:04		3520		271							005								
			STO	06.00	084		3509		~ 73		00	308 46	1	0719		945								
	121		BS	0679	071		3500		274							907								
			STO	0700	068		3500		274			30747		0801		901								
			STO	0800	059		3500		€75		00	00627	4	0870		550								
	121		35	10862	05+		3499		276							870								
			SID	0900	053		3500		276			00564		0929		873								
			SID	1000	051		3499		276			00547		0965	14	880								
			STD	1100	044		349		277			00530		1039	14	887								
			STO	1200	046	4	3450	3	277	2	00	00514	1	1091	14	894								
			STO	1300	044	0	3491	4	277	5	00	004 46	0	1142	1 -	901								
			STO	1400	041	7	349	7	277	7	00	00478	2	1190	14	₹ 08								
	121	0	185	T1416	041	3	349	71	277	7					14	90 +								

	HIP	LATITUE	DE 1/10		G)TUDE * '1/10	PMDCT.	MAA 501	ISDEN JARE		ION THE	ļ	YE A I	R C	NO.	_ '	TATIO	N	DEP TO	0.4	MAX. DEPTH OF S'MPL"	DIL	WAVE ERVATI	SEA		111	ODES			NODC TATION TUMBER
9 (CK .	4400	-	040)33 w		149	40	06	13 1	21	196	8	015	01	2		473	37	15	29		4	X 1	6	3 4			0012
1	,, }					,		WA	TER	T w	IND	Τ.	A 2 0 -	1	AIR TE	MF T		N.C	5. T		CIAL								
								COLOR	TRANS	DIR.	SPEEC) M	ETER		DRY	WE	VIS 000	DEP	S.	OBSER!	ATIONS								
								CODE	Les I		*0*0		mbe)		ULE	BUI	_	-	-										
										29	S1 8	1 3	301	1	28	11	7 7	14	1						_				
	511HG* TIME 0	CAST NO.	CAT		DEPTH	lw)		1 '5	s	٠/٠.	sic	MA-1	1	ANDN	VOLU	10?	\$ A D OTN. A 103	à	SOU VELO		03 m1/1	PO 4		TOTAL-1 20 - 41/1		02-N - 91/1	NO3-N H2 + 81/I	51 O 4 = 5 14 - 05/	
71.8	1710	-	5	TD	00 00)	1-	1523	36	11	26	79		001	264	3	0000		150										
1	121	1	DB		000		1	1523	36	108	26	79	,						150										
				T D	001	0		1522	36	11	20	79			265		0013		150										
			S	ΤD	00.2	0		1521	36	11	20	79		001	267	7	0025		150										
	121		DB.	S	002	3		1521	36	107	2.6	580							150										
				Tp	003	0		1521	36	11	20	·7 9		001	270	18	0038		150										
	121		DB	S	004	6		1522		108		579							151										
			S	T D	005	0		1522		11		579		001	277	1	0063		151										
	121		0.8	S	007	1		1522		115		580							151										
			S	TD	007	5		1505		0.0		581		001	269	9	0075		151										
	121		DВ	S	009	ō		1442		950		585							150										
			S	10	010	0		1442		195		685			240		0127			084									
			S	T D	012	5		1436		54		585		001	243	0	0158			086									
	121		0.8	S	014	2		1428		522		686					01.1/			086									
			S	T D	015			1421		91		686		001	241	. 4	0139			084 080									
	121	l	0.8	S	T019	0		1390		857		689					025			081									
			S	TD	020			1386		85		689			1226		025			078									
			S	TD	02.5	0		1354		81		693		001	201	12	031	-		073									
	123	l	D8	S	026	1		1327		764	_	695					037			070									
			S	T O	030			1308		72	_	695		00.	1199	0 2	037			047									
	12	l	DB	S	1037			1212		5543		701					048			030									
				TD	040			1155		544		703		00	1133	30	046	0		993									
	12	1	D 8		046			1024		5242		712		00.			059	6		978									
				TD	050			0971		19		717		00.	101	+ 0	059)		946									
	12	1	0.6		1056			0859		5105		729		0.0	083		068	Ω		925									
				TD	060			0791		507		736			0654		076			876									
				TD	070			0624		500		754 762		00	063	4 7	010	۷.		855									
	12	1	0.6		077			0544		4964		763		an	056	76	0.82	3		355									
				TO	080			0533		497		767			053		087			858									
				TD	090			0500		497 4976	_	770		00	ادري	رر	001	5		862									
	12	1	DE		097			0479		4916 498		771		0.0	05 0	75	093	0		864									
				TD	100			0472		497		773			048		098			570									
				10	110			0448		491		775			047		102			879									
				OTO	120			0428		491		777			046		107			889									
				510	130			0413		496		777			046		112			901									
		_		S T D	140			04 02	-	490 4958		778		00	J+0	,		_		914									
	12	1	D	3.5	114	99		0370		7720		,,,,	•						- '	- '									

2.	CODE	LATITUE		NGITUDE E	SOUA	AE	STATION (GM	TIME TI HR.1/	TEAR		RUISE NO.	STATI NUM	ON	DEPTH TO ADTTOR	MAX DEPTH OF S'MPL	085	WAVE ERVATIONS		E TTPL AM		2.	NODC FATION UMBER
٥. '			1/10		149		06 14		196	H I	119 (013		+755	16	26		3 X4	x 9	1		0013
59	CK	4406	N O	1046 W	149			_		, 0		1EMP	- 1		1	_	1 1	1		,	1	
					-	WAT		WINC		ARO-				NO. 085.	SP	ECIAL						
						CODE	IRAMS D	IR. E	D# 1 1.	#STER	BUL		ET COD	DEPTHS	OBSER	VATIONS						
					-	CODE	2		/ECE	17	150		50 3	14	+							
							-	0 3			1.7			1,-			_		_	_		T -
ſ,	MESSENGE	CAST	CARD		Τ.		5 1/4		SIGMA-1	, 1	PECIFIC V	OLUME	S A D	50	מאטנ	02 mV	PO4-P	TOTAL		NO3-N	\$104-51	рн
	TIME	NO.	1176	DEPTH (m)	1 '	Α.	3	.	310	1	ANOMAL	1-2107	x 10 ³	. \ \rel	LOCITY		µg = 61/1	#\$ * #1	1 ug - at/l	yg - 01/1	µg - 01/1	
H	H# 1/10	-	STO	0000	1.4	474	3589		2673	7	0013	220	0000	15	077							
	215		OBS	0000		+74	3588		2673	1				15	077	L	1					
	210	•	STD	0010		478	3592		2675		0013	100	0013	15	080							
			STD	0020		481	3554		2676		0013	047	0026	15	083							
	216		085	00 26		482	3594		2676					15	084							
	210	,	STO	0030		482	3595		2676		0013	038	0035	1.5	085							
			STD	0050		461	3595		2676		0013	060	0065	1.5	880							
	216		D85	0053		481	3595		2676					19	880							
	210	,	STD	0075		492	3601		2678		0012	961	0098	1 :	096							
	21		D85	0076		492	3600		2678					15	096							
	21	,	STD	0100		483	3600		2680		0012	903	0130	1 1 9	5097							
	21		085	0101		483	3599		2679					15	097							
	21	5	STD	0125		489	3601		2679		0013	02 b	0163	1 1 5	5103							
			STD	0150		496	3603		2679		0013	118	0199	1.5	5110							
	21	4	DBS	0150		496	3502		2679						5110							
	21		DBS	10198		406	3584	0	2684						5087							
		•	SID		1	402	3583	3	2684		0012	755	0260		5085							
			STD			321	3569	9	2690		0012	291	032		5065							
			STO		ī	254	3558	3	2695		0011	945	038		5050							
	21	6	D85	0300	1	254	3551	77	2695						5050							
		•	STD		1	169	3548	3	2704		0011	288	049		5030							
	21	6	085	10402	1	166	3548	9.0	2704						5035							
		-	STD			991	352	4	2717		0010	113	060		4486							
	21	6	OBS	05 05	0	981	3527	2.8	2718						4983							
		-	STO			769	350	1	2735		0008	3419	069		4716							
	21	6	DBS	T0605	0	760	350	01	2735						4+13							
		-	STE			6 30	349	7	2751		0006	354	077		4878							
	21	6	085	0798	0	1535	349	58	2762					_	4356							
	- •		STO		C)534	349	5	2762		0009		083		4355							
			STO		0	1490	349		2767		0005		089	_	4857							
			STO		C)463	349	7	2772		0004	996	094		4860							
	21	6	280	T1007	0	0461	349		2772						4560							
	-		STE	1100	C	1435	349		2775		0004		099		4865							
			STO	1200	C	3413	349		2777		0004		1 04		4873							
			STI	1300	(0396	345		2779		0004		1 08		4882							
			STI	1400	(384	349		2779		0004		113		4894							
			ST		(3377	349		2779		0004	+512	117		4 3 0 8							
	21	6	DBS	T1619	(0376	345	33	2776	d d				1	4927							

REFERENCE	SNIP				=	MAR	DEN		ION T	IME				ORIGIN	ATOR'S		DEFTH	MAX. DEPTH		WAY		П	WEA-	Cronp			NODC
CTET ID.	CODE	LATITUDE			ğ	sou	ARE		IGMTI		YE	A	CHUISE		TATION		10 SOTTOM	OF		SERVA			THER	CODES			STATION
	-	1/10		1/10	7	10"	1*			(R,1/10			NO.	-	*UMBER	_		3 mr L 3	Dat	HGT	PR 51			TYPL AM	1		
311269	CK	4348 N	0.4	+043 W		149	30	06	16	000	14	16 B	610	01.	4		4682	12	26		- -	3	X 4	5, 8		- 1	0014
							WA	TEA	_ \	WIND	I	BARO		AIR TEA	up. t	VIS	NO.	SPEC	ta.i	1							
							COLOR	TRANS	DIR	SPEE	1	M ETEI		DRT ULB	WET	COD	DEPTHS	OBSERV									
							COOL	-	26	518	1	203		56	150	4	14		_	4							
				,				Ļ_	20	3.		20.	<u> </u>	,,,	1,00	<u> </u>	1.7	L		1		_					
	MESSENGE	CAST C	ARD	GEPTH IM	, 1	т	₹	5	-/	Suc	MA.	-1	SPECIFIC	VOLU	MI E	A D	50	UND	0; m/		04-1		TAL-P	NO3-N	NO3-N	SI O4-	SI BH
	NR 1/10	NO. 1	T PE												1	103	VEL	DCITY		74	- 61/1	μ	1/18 - 9	₩g - 01/1	PB - 01/1	yg - at.	4
			10	0000			488	35			578		001	274	5 0	000		082									
	000	, 08		0000			4 8 8		993		78				. '			DR5 ,					'			'	
			10	0010			483	35			79			271		013		002									
			TD	0020			479	35			579		001	268	1 0	025		286									
	000	08		0021			478		982		79				, ,	020		082									
	0.00		TO	0030			477	35			79		001	2124	+ 0	038		084									
	000	08	10	0043			475 473	35	970		579 580		001	274	5 ^	064	150										
	000			0062			470		974		81		001	2 14:	, ,	UO 4		387									
	000		10	0075		_	469	35			81		001	274	3 0	095		388									
	000			0085			468		968		81		001		, ,	.,,		90									
	000		ID	0100			474	35			81		001	280	4 0	127		394									
			TO	0125			484	36			51		001			159											
	000	0.6	ıs	0134			487		950		81							104									
		5	T D	0150		1	470	35	99	26	82		001	284	7 0	192	15	101									
	000	0.6	S	T0165		1	453	35	959	26	83						150	98									
			TO	02 00			392	35			86		001	255	1 0	255		082									
			T D	0250			330	35			91		001	225	0 0	317	150	069									
	000	0 t		0256			324		711		91							068									
			TD	0300			315	35			93		001	219	3 0	378		072									
	000			10334			290		702		97							069									
	000		TD	0400			185 152	35			704		0 01	130	4 0	496		342									
	000		10	0420 0500			011	35	465		706 716		0.01	023	7 0	503		993									
	000	O E		T 05 05			002		259		17		001	023	, 0	303		991									
	000		TD	0600			824	35			734		000	86.04	4 0	598		938									
	0.00	0.6		0662			720		026		743		000	000		,,,		908									
			TD	0700			658	349			149		000	710	0 0	776		389									
		S	TO	0800			524	34	91		760			6000		342											
	000	0.8	S	10819			503		903		62		-		_	_	148										
		5	TO	0900		0	486	34	92	27	65		000	557	0 0	900	14	352									
		S	TO	1000		0	465	34	94	27	69		000	527	3 0	954	14	360									
			TO	1100			443	34			72		000	497	9 1	005	14	868									
			10	1200		0	422	34			776		000	467	9 1	053	144	876									
	000	0.6	35	T1209		0	420	34	971	2 7	776						14	377									

ID.	CODE	LATITU	DE 1/10		GITUDE	PAGE 18	MARS SQUA	RE	STATION T		YEAR	CRUISE	STATION STATION NUMBER		DEPTH TO BOTTOM	DEPTH OF S'MPL"	0		VE A TIONS	THE	R CODE	s	S	HODE TATION
11269	CK	4403	N N	04	123 W		149	41	06 16	184 1	968	019 01	5	Ī	4700	16	26			3 X L	3 5	1		001
						1 1	ſ	WA	ER V	WIND	BARO	ASR TO	MP T	7	NO.	ļ	1	٦' -	1 +	1	' '	1	- 1	
								COLO	TRANS. DIR.	SMIO	METER	DRY	WET	CODE	OBS.	ORSERV	CIAL	s						
								CODE	MA:	FORCE	[mbs1		BULB		DEPTHS			_						
									27	517	1 86	133	125	8	14									
	MESSENG	CAST NO.	CAI				Ι.	_				SPECIFIC VOL	UME 3	Δο	501	UND		Τ,	04-1	TOTAL-	+ NO3-N	NO3-N	SI O4~SI	
	HR 1/1		111		DEPTH	(m)	,	₹	s */	SIGM	A -T	ANDMALT-I	197	∑ D D M x 10 ³	VELO	DCITY	02 ml		8 - 81/1	vB - 61/		VR - 01/1	ya - o1/1	
	FIR 123	*	SI	ro	000	0	1 5	08	3552	266	8	001369		000		386		+			1	 		
	18	4	08		000			08	35921	266		00100	. 0	000	150						I		l	1
	-			0	001			03	3593	267		001355	1 0	014										
			51	0	002	0	15	00	3594	267	1	001344	5 0	027	150	089								
	16	4	OR:	S	002			39	35948	257					150									
			S	0	003	0	14	98	1595	267	2	001336	9 0	041	150	90								
	18	4	08	S	004	7	14	97	35984	267	5				150	93								
			5	0.1	005	0	15	03	3601	267	6	001309	0 0	067	150	95								
	18	4	08		007			3.2	36138	267					153	110								
				0	007			32	3614	267		001285	1 0	099										
	18	4	083		009			30	36136	268					151									
				D	010			30	3613	268		001291		132										
				10	012			28	3612	267		001303	0 0	164	151									
	18	4	08		014			27	36116	267					151									
				0	015			21	3610	267		001312	6 0	197	151									
	10	4	08		1019			57	35956	268					151									
				C I	020			45	3593	268		001291		262	151									
		,		0	025			156	3576 35652	268		001247	/ 0	325										
	18	4	08	10	029			91	3505	269		001212		207	150									
	18	/.	08:		1038			00	35531	270		001212	9 0	387	150									
	10	-		10	040			70	3548	270		001132	1 0	504	150									
	18	4	08		048			97	35235	271		001132	. 0	JU4	149									
	4.5	•		10	05.0			75	3521	271		001006	.1 0	611	149									
	19	4	08		1058			146	35091	272		221000	. 0		144									
		•		T D	060			118	3508	273		000865	7 0	705	14									
				ΓD	070			61	3501	275		000699		783	146									
	18	4	08		078			61	34971	276					148									
				TD	080			54	3497	276		0005 95	3 0	846	148									
				ΓD	090		0.5	04	3497	276		000541		904	148									
	19	4	0.6	S	1099	3	04	£5	34966	277	1				146									
			S	ΙD	100	0	04	64	3497	277		000503	9 0	957	145	360								
				0.1	110	0	04	51	3496	277	2	000498	4 1	007	148	371								
				0.1	120			37	3496	277		000492	4 1	056	148	82								
				ΙĐ	130			23	3496	277		000486		105	148									
				ſυ	140			10	3496	277		000479		154	149									
				0	150			196	3496	277		000472	5 1	201	149									
	18	4	0.83	S	T155	2	03	89	34454	277	В				149	21								

ID.	SHIP	LATITU	301	LON		PECTA FOCTA	M A R S	ARE	51A1	ON TI	ME	YEAR	CRUIS	ORIGIN E S	TATION	-	DEFTH	MAX DEPTH OF	OB	A V R	ONS	WEA	000			5.7	ATION
NO.		•	1/10		1/10	3	10*	111	MO	AY H	L1/10		ND	١ ١	UMBER		MOTTON	S'MPL"	S DIR.	MGT PI	\$14	COD	1784 A	MT			UMBEA
269	CK	4408	N I	04	057 W		145	40	06 1	. 7 1	23	1963	01	ol (5	14	+755	16	30		2	X1	1			(001
,			,					WA	TER	- w	IND	BAR		AIR TEA	AP T		ND.	1		1' '		4	,	,		1	
								COLOR		DIR	SPEED	MET	Ee	DRY	WEI	CODE	Oas.		CIAL								
								CODE	(m)		PDPCE		- 1	BULB	RULE		DEPTHS										
										25	51 C	24	4 [144	139	8	14										
	MESSINGE	5.45	CAI			_			T				OHCI	IC VOLU	ME SY	20	10	UND		PO							
	MESSINGE TIME		TY	E	OEPIH L	w)	1	Ψ.	5	٠4.	SIGA	AA-T	AND	MALT-II	וום וק	103		DCITY	02 ml/	1 101		101AL-1	NO2-1			O4-5- 0 - 61/1	ρH
}	HR 1/10	+	6.	r D	0000	-	1	5 3 9	360	10	26	7 /-	0.0	1313	_		116	100		-	\rightarrow		1	170	-	-	
. !	123	, I	08		0000			539	360		26		00.		100	00		100					1	ĺ		ļ	
	12.	,		T D	0010			535	360		26		00	1307	5 00	13		100									
				ro	0020			531	360		26			13014				100									
	123	3	D 8		0027			528	360		26					_		101									
		-		g	0030			527	360		26		00	1294	3 00	39		101									
				ΙĎ	0050			517	360		26			2792				101									
	123	3	085		0051			516	360		26					-		101									
	•			ſρ	0075			516	360	9	26	79	00	2881	0.0	97	15	105									
	123	3	085		0086			513	360		268							105									
				ro	0100			50a	360	18	268	30	00	12840	01	29	15	106									
	123	3	D83	5	0101	l	1.	507	360	76	260	0 6					15	106									
			\$1	D	0125	5	1 .	483	360	13	268	32	00	12752	01	61	15	102									
			S 1	r D	0150)	1 .	463	359	19	268	33	00	12700	01	93	15	099									
	123	3	085	5	015	3	14	461	359	186	268	3.3					15	099									
			\$1	D	0200)	1.	437	359	4	268	35	00	1267	02	56	15	098									
	123	3	D8:	S	T0209	5	1.	434	359	33	268	35					15	098									
			\$ 1	D	0250)		383	358	4	268	9		12439		19		890									
			S	D	0300			334	357		26		00	12176	0.3	81		079									
	123	3	0.85		0310			325	357		269							077									
				ro	0400			271	35 €		260		00	12006	05	02		073									
	123	3	D8:		T 04 1 6			250	356		269							068									
				O	05 00			065	353		271		00	10745	06	15		014									
	123	3	089		0524			018	352		2 71							000									
				O	0600			891	351		272		00	3945	07	16		964									
	123	,	D8:		06 32			842	350		27							950									
				0	0700			737	350		274			07738				921									
				D	0800			615	350		275		000	0641	08	13		889									
	123	,	D85		0846			572 544	350		276		0.01	05723	3 09	٠,		879 8 7 7									
				מז מז	0900			499	349																		
	1 7 7				1000						276		000	05317	09	0.4		875 875									
	123	,	089	ם מו	11057			476 469	349		27		004	05107	7 10	4 1		879									
				T D	1200			453	349		277			05 073				889									
				0	1300			437	349		271			04961				899									
				a	1400			420	349		271			04916				909									
				ſρ	1500			404	349		27			04868				919									
	123		085		T1599			388	349		271		001	,,,,,				929									
	100	•	00.	-		•		- 00	243		- (•					. •										

CE O.	SHIP	LATITU	DE	LONGITUDE	MA SQ	RSDEN WARE	STATI	ON TIME		EAR	CRUIS	DRIGINA E ST	TATION	DEPTH 10	DEPTE	* OI	WAVE SEEVATI	ONS	WEA-	CFORD		S	NODC
0,		·	1/10	1/10	10*	1.	MO D	AY HE	/16		NO.	N	UMBER	BOTTON	S'MPL	S DIA	NGT FEE	51A	CODE	TYPE AM	7	,	W U AN II E
69	CK	4405	N	04048 W	14	9 40	06 1	8 12	3 1	968	01	017	7	4707	15	24		2	X 2	2 8]		001
					•	WA	TER	WIN	0	BARC	, T	AIR TEN		NO.	<u> </u>		} '	,	1		1	,	
						COLDS	18ANS	OH.	OP	METE	•	DRY	WET CO	DEPTHS	DRSEA	CEAL VATIONS							
						COOE	5m1	1 '	OFCE	[mbs		BULE											
								25 S	07	291	ı þi	56	150 7	14			ì						
Į,	MESSINGS	CAST	CARC	,			1	. 1			SMCII	C VOLUA	AT SA		UND		10.						T
١.	TIME HII 1/10	NO.	TYPE		m)	1 6	5	'4.	SIGMA	A - T	ANO	MALT-#18) DYN.	VEL	OCITY	03 41/	1		DTA L=P (8 + 01/1	NO2-N #g - nI/I	NO3-N vq - nt/1	\$1 D4~50	
- 1	1/10		ST	0 0000	_ + -	1586	360	5	266	0	001	4450	_		114		+	-	_			-	+
- 1	123	, 1	085	0000		1586	360		266	- 1	001	. 4450	1000		114		Į.					1	1
			ŞT			1568	360		200		001	4033	001		110								
			ST			1553	360		266			3683			107								
	123	3	D85			1544	360		267						105								
			21	D 0030		1542	360		267		001	3493	004		105								
			ST	0050		1524	360		267		001	3462	0.06	9 15	102								
	123	3	085			1522	360		267					15	102								
			ST			1493	359		207		001	3277	010	2 15	096								
	123	}	DBS	0078		1491	359		267						096								
			ST			1485	359		267		001	3225	013		097								
	123	3	0.82	0104		1484	359		267						098								
			ST			1486	355		26?			3281			102								
			ST			1498	354		267		001	3317	020,		107								
	123	5	085	0156		1488	359		267						108								
	123		ST			1486	360		267		001	3284	0268		115								
	12:	,	OBS	T0206 D 0250		1483 1431	359 358		268 268		301	3133			115								
			ST			1364	357		268			2924			104 088								
	123		085	0309		1351	357		268		001	2924	0.39		085								
		,	ST			1204	354		269		001	195	052		048								
	123	3	085	T0410		1189	354		269		001		032		044								
	• • •	-	ST			1069	353		271		0.01	0743	063		015								
	123	3	085	0511		1052	353		271		001	0,73	. 505		011								
			ST			3849	351		272		000	9129	073		764								
	123	3	DBS	T0608		0875	351		273						160								
			ST			0712	350		274		000	7440	081		911								
			5.1	0000		0582	349	7	275	7	000	6330	0888	3 14	d 75								
	123	3	085	0813		0569	349	55	275	8				14	872								
			ST			0523	349	6	270	4	000	15723	09+9	14	868								
			ŞΤ			0478	349		276		000	15226	1003	14	866								
	123	3	DBS	11020		0470	149		277						866								
			ST			0457	349		277			15094			374								
			ST			0441	349		277			15 02 7			184								
			ST			3426	349		277			14962			3 74								
			ST			0410	349		277			4 894			904								
			SI			0394	349		277		000	14819	1253		914								
	123	,	08\$	11549		386	349	35	277	1				14	919								

ID. CODE	LATITUI		LON		DEFT	MARS	ARE		ON 11 GMT)		YEAR			STATIO) N	-	DEPTH TO BOTTON	M A X DEPTH DE		D82E8	NAVE BVATIO		Th.	EA-	CEDU	s		STA	DDC ATION IMBÉR
NU.		1/10		1/10	1-	10"		MO D				-	_	HUME	SE R	\rightarrow		3 MIPL	+ -		IGT PE		`	\rightarrow	1191 A			+	
269 CK	4345	N	041	130 W		149	31	06 1	9 1	26	1 5 5 8	i lo	19 01	8		ľ	+663	15	2	6	1	2	×	1	3 7			0	018
							WAI	ER	*	IND		10-	A IR TE	MP Y	0	VIS.	NO.	595	CIAL										
							COLOR	TEANS.	OIR.	SPEED	AA E		DRY	WE	T (DBS. DEPTHS	DOZERY	A TIG	1214									
							COOL	Part.	27	507	2 6		193	17		7	14			-									
						,			2 1	30,	1	, -	133	1		_	1.7	L,		Щ,	_					,	_		
MESSENGE TIME O	CAST	CAR		DEPTH	(m)	١,	٣	١,	٠/	SIG	MA-I		CIFIC VOL		₹ /	∆ D.	\$0	UHD	02	m(/)	PO.		1014		NO2-N			0 a = 51	ρН
HR 1/10	NO.	TYPE					-	-		"		^	NOMALT-1	'°'	X	103	VEL	OCITY	~.		иф - 4	n124	NB - 0	121	µg - 01/	N8 - 0	/L ug	- 01/1	.
		ST	D	000	0			351	17					\neg															
126		085	- 1	000	0	1	5930	356	85	26	460	1		- 1			ŀ			1		- 1		- 1		1	-	,	
		ST	0	0010	0			35₹	9																				
		5.1	D	0021	0			35	90																				
126		085		002	5	1.	485	35	304	26	72						15	084											
		ST	0	0031	0	1	485	35	91	26	72	0	01338	0			15	085											
		5.1		0050			484	35		26		0	01331	8				088											
126		085		0051		1.	484		724	26								986											
		ST		007			483	359		26		0	01329	3				092											
126		OBS		007			483		935	26								092											
		Ş T		010			485	35		26		0	01321	4				097											
126		085		010			485		962	26								097											
		SŦ		012			451	359		26		0	01321	3				104											
125		085		014			492		9 00	26								108											
		SF		015			492	360		26		0	01317	9				108											
126		085		1019			477		87	26								111											
		ST		020			477	359		26			01317					111											
		ST		025			472	359		26		0	01345	9				118											
126		085		029			439		921	26								115											
		ST		030			438	359		26		U	01313	4															
126		08S		1039			287	356	17	26 26		0	01255	6				077 077											
1 24				040			286					U	01233	,				039											
126		08S		049			136 125	354	23	27 27		0	01124	4				036											
1.24		085		1059			939 125		212	27		U	01124	•				981											
126		51		060			926	352		27		0	00951	а				978											
		ST		070			772	350		27			00804					935											
126		085		079			644		015	27		J	50004	J				699											
120		51		080			632	350		27		ρ	00673	0				896											
		ST		090			505	349		27			00542					860											
126		085		099			414		945	27			20272	,				838											
		ST		100			414	344		27		Ω	00455	9				839											
		ST		110			408	34		27			00459					853											
		ST		120			403	349		27			00462					868											
		ST		130			397	34		27			00465					882											
		ST		140			392	341		27			00467					897											
125		085		T149			386		940	27								911											

Table XI.—Observed and interpolated oceanographic data for stations taken by USCGC HAMILTON at Ocean Station DELTA, 6 July–9 July 1968, prepared from NODC listing No. 31–8042 HT.

REFERENCE					MARSOEN	STATION TIM	E	ORGI	INATOR'S	DEPTH	M A X		WAVE	WEA- THER	crono			HOOC TATION	
CTAY ID.	CODE	LATITU	1/10	LONGITUOE	SQUARE 10" 1"	MO OAY HR.	YE AR	CRUISE HO.	STATION HUMBER	TO AOTTOR			ERVATIONS		CODES	4	N .	UMBER	
318042	HT	4322	_	04028 W	149 33					4682	15	00	0		0 3			0001	
1 310042	1	,,,,,			w	ATER WIT		RO- AIR T	EMP 'C	, HO.	SP	ECIAL		,					
					coto	R TRANS. OIR.	SPEED ME OR Im		WET CO		OBSER	VATIONS							
					DT		02 18		133 7	39	 								
	MESSENG	CASI HO	CARC	DEPTH (m)	1 %	5 .4,	SIGMA-T	SPECIFIC VOI		D SO	ORITY	0 2 ml/l	PO4=P	10TAL=P	NO2=N	NO3-N yg - al/l	\$104-\$4 	ρН	200
	HR 1/10	I			1.563	3547	2623	001794	X /0	-	096		1	-				-	
	1 2	0	085	0000	1553 1553	35470	2623	100173	40 000		096		1		1			1	1 4
	*		ST	0010	1553	3547	2623	001796	64 001		098								
			OBS STI	0010 0020	1553 1561	35471 3562	2623	00171	01 003		098 104								
	00	6	085	0020	1561	35617	2633			15	104								
			ST		1576 1576	3582 35817	2645 2645	00159	98 0 05		113								
			D85	0030 0 0050	1576	3608	2664	00142	75 008	2 15	121								
			DBS	0050	1581	36077	2664				121								
			ST DBS	0075 0075	1581 1581	36 1 0 3609 7	2665 2665	00142	09 011		125 125								
			ST		1569		2669	00138	81 015		146								
			085	0100	1569	36117	2669	00135	54 018		126								
			ST DBS	0125 0125	1557 1557		2674	00135	54 018		126								
			ST		1551	3613	2674	00135	75 022	1 15	128								
			085	0150	1551	36127 3613	2674 2677	00134	72 028		128								
			S T 08 S	0200 0200	1540 1540		2677	00134	12 020		133								
			ST	D 0250	1514	3606	2677	00135	97 035		132								
			085	0250	1514 1439		26 77 2680	00134	68 042		132								
			ST 08S	0300 0300	1439		2680	00134	00 012		114								
			08\$	0330	1401	35817	2683				106								
			08S	0340 0350	1363 1365		268 4 2689				094								
			085	0370	1365		2688			15	101								
			ST		1320		2689	00127	77 055		089								
			D8S	04 00 04 50	1320 1229		2689 2 7 01				064								
			ST	D 0500	1157	3543	2702	00116	75 067		047								
			085	0500	1157		2702				047								
			DBS ST	05 50 D 06 00	1061 0951		2711	00101	79 078		987								
			DBS	0600	0951	35167	2718				987								
			D85		0845 0781		2730 2737	00084	29 088		955								
			085		0781	35057	2737	0000.		14	938								
			DBS		0696		2743				912 894								
			D85		0641		2749 2751				+838								
			ST	D 0800	0649	3505	2755	00066	43 099		901								
			085		0645		2755 2754				+901 +903								
			D85		0642 0601		2759			1.	+890								
			085	0855	0581	35001	2760				4884								
			ST D85		0581 0581		2761 2761	00061	.03 101		4892 4892								
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			S T 085		051° 051°		2768 2768	00054	58 107		4883 4883								
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			089		043	3 34967	2775			1	4914								
			S1	0 1500	041		2775	00050	015 13		4925								
			089	1500	041	9 34957	2775			1	4925								

REFERENCE	SHIP	LATITU	DE .	LONGITUDE 5X	RAM UQ2	SDEN	STA	TION T	IIME	TEAR	F	ORGIN			DEPT	DE	AX. PTH OI	WAVE SERVATIONS	Т	W EA -	CLOUD	F		NODE	
CTAT ID	CDD		1/10	LDNGITUDE B	10*	110			HR,1/10		C	NO.	TATIOI BENUN		80 TTD			HGT PER S		DDE	ITPE AM			BMUN	
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						COLOR	TRAN		SPEE	BAR MET	O- ER	AIR TE	WET	VIS	NO. DBS. DEPTH	DMS	SPECIAL SERVATIONS								
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			STC DBS	0010		301 301		99 98 7		63	0	02373	7 (0024		4998 4998									
			510			561		83		49	0	01556	9 (044		5106									
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			STO	0030		603 603	35	98 980	26 26		0	01539	9 (059		5 12 3 5 12 3									
			085	0040		626		137		58					1	5134									
			STE			629	36			58	0	01479	9 (089		5136									
			085 085	0050 0060		629 620		150 131		58						5136 5135									
			085	0070	1	609	36	132	26	61					1	5133	3								
			STC 085	0075 00 7 5		601 601		15 148		65	0	01427	6 (126		5132 5132									
			D8S	0090		601		180								5135									
			STE			601		18		67	0	01412	3 (161		5136									
			08S S T C	0100		601 561	36 36	180		72	٥	01367	7 (196		5136 5127									
			085	0125		561		132			٠	01361	٠,	1170		5127									
			STO			550	36			73	0	01365	6 (230		\$128									
			D85	0150		550 506	36 36	113 03		73	٥	01347	6 (298		5126 5121									
			D85	0200		506		029			٠	01341	• •	,2 70		5121									
			STE			419		86		83	0	01305	2 (364		5100									
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			085	02 90		391		817								5096									
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			08S	0300		356 320		732 697	26	86						5086 5076									
			088	0320		334		781		95						5082									
			085	0350		337		772	26							5086									
			DBS STC	0360		322 262	35	745 63		97	0	01199	1 (1553		5084 5069									
			085	0400		262		628					•			5069									
			STE			037		29		13	0	01056	5 (1666		5003									
			D85	0500 0525		037 021		287 252		13						5003 5001									
			0.85	0565	0	882	35	087	27	23					1	4954									
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			D85	0600 0660		883 792		149 057		35						4961 4936									
			DBS	0670	0	581	34	807	27	45					14	4851									
			D8S 510	0675 0700		580 601		817 94		52	0	00669	9 (844		+852 +866									
			D85	0700		601	34	937	2.7		J	V0009		.044		+866 4866									
			DBS	0720	0	619	34	957	27	52					1 4	876)								
			085 STC	0760		523 572	34	835 98	27	60	0	00609	1 /	908		4843 4871									
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			DBS	0900		502 502	34	95 949		65	0	00554	3 (1966		859 859									
			STO	0001	0	474	34	97	27		0	00511	5 1	019		864									
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			STE	1100 1100		446 446	34	95 952	27	72	0	00501	4 1	070		869 869									
			STE	1200	0	446	34	c 9	2.7	75	0	00485	2 1	119		886									
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			STE	1400	0	411	34	97	27	77	0	00475	7 1	216	1 4	905									
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CIPT ID.	CODE			1/10	1/10 3	10*	1"	MO	DAY	HR,1/			4-	NO.	1	NUM	HER.		BOTTO	2,4	OF MPL'S	DIR.		ER SEA	CODE	TIPL A	AT		-	UMBER	-
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			STO	0250		479	3600	268		0013	301	036	4	151								
			085	02 50		479	35995	268			_			151								
			ST0	0300 0300		430 430	3590 35895	268		00131	149	043	0	151								
			085	0350		341	35695	268						151								
			085	0395	1	262	35601	269						150								
			\$10 085	04 00		291	3571	269		00119	61	055	6	150								
			085	0400 0416		291 296	35710 35708	269						150								
			085	0450		239	35587	269						150 150								
			085	0490	1	121	35375	270						150								
			ST0 08\$	0500 0500		091 091	3532	270		00112	62	067	2	150								
			08\$	0540		040	35323 35335	270						150								
			STO	0600		19	3519	272		00094	97	077	6	149								
			0.85	0600		19	35187	272	5					149								
			280 280	0650 0670		81 765	35045 35115	273						149								
			STO	0700		73	3515	274		00076	01	086		149								
			085	0700	07	73	35153	274	5				•	149								
			08S	0710 0740		80	35185	274						149								
			085	0755		00	35053 35119	275 275						1490								
			STD	0800	05	98	3499	275		00064	02	0931	ı	149								
			085	0800		98		275	7		-			1488	32							
			08S 5TO	0830 0900		26 19	34905 3499	275		0005 5	0.1	000		1485								
			280	0900		19		276		00055	υI	0991		1486								
			085	0920	05	39	35017	276	6					1487								
			085 ST0	0990 1000		81 80		276						1486	56							
			085	1000			3497 34970	277 277		00052	15	1045		1486								
			STO	1100	04	73	3502	2774	4 (00048	95	1095		1488								
		-	085	1100			35016	2774	.					1488	31							
			ST0 085	1200 1200				277		00048	41	1144		1488								
		,	510	1300				277! 27 7 (00048	21	1192		1488								
		(065	1300	04	36	34988	277	5		•	76		1489								
		,	ST0 085	1400	04			277		00048	01	1240	1	1490	9							
		,	510	1400 1500	04			2 7 7 7 2 7 7 7		000474	. a	1200		1490								
		(280	1500	03			277		JUU4 /	73	1288		1491 1491								
						-								1421	·							

ERENCE					MARSOEN SQUARE	STATION TIME	YEAR	ONIGINATO		OEFTH TO	MAX. OEFTH	OBSE	WAVE RVATIONS	WEA- THER	CLOUG		3	NODC TATION	7
ID.	SHIP	LATITU	DE LON	GITUDE ES	10" 1" 4	NO DAY HR.	/10	NO. NUA	ABER	NOTTON	3 467 6 3		HGT PER SE	COOL	TYPE AM			000	_
18042	нт	4402				7 07 23		D20 007		617	15	00) ×	X 2	0 3		}	000	'
	'		•	, .	WATI	ER WIL	SPEED METE	O+ AIR TEMP		NO. OBS. OFFINS	SPEC	IAL							
					COLOR	IRANS OIR	ORCE (mb)				OBSERVA								
					DT	50 12 5	03 30	1 150 1	33 7	48	<u> </u>							T-	_
	MESSENG	CAST	CARD	DEPTH (m)	1 %	5 %.	SIGMA-T	SPECIFIC VOLUME	¥ ∆ 0 0 N. M. x 10 ⁰		LOCITY	0 2 ml/1	PO4~P vg + s1/I	101A L→P ug - et/l	NO1-N up - 01/1	NO3=N	\$1 Q4-\$4 ug - 01/	PF	н
	MESSENGI TIME HR 1/10	T NO.	CARD	Diele mi		7 "							-			74	-	-	
			STD	0000	1501	3463	2570 2570	0023015	0000		070		}			1	1	1	
	23	0	' 085 STO	0000	1501 1621	34625 3560	2617	0018536	0021	15	120								
			085	0010	1621	35595	2617				120								
			STD	0020	1631	3582 35815	2632 2632	0017186	0039		128								
	00	6	08\$ STD	0020	1631 1661	3610	2646	0015849	0055	15	142								
			DBS	0030	1661	36095	2646		0006		142								
			STD	0050	1621	3620	2663 2663	0014294	0085		5134 5134								
			08S 012	0050	1621 1551	36195 3607	2670	0013791	0120		115								
			08\$	0075	1551	36065	2670				5115								
			STD	0100	1535	3604	2671	0013744	0155		5114 5114								
			085	0100 0110	1535 1522	36035 36015	2671 2672			15	5111								
			5 T D	0125	1543	3610	2674	0013557	0189		5121								
			085	0125	1543	36095	2674 2673	0013665	0223		5121 5125								
			280	0150 0150	1541 1541	3609 36085	2673	3013003	V	15	5125								
			085	0170	1481	36005	2681				5108 5096								
			085	0178	1442	35895	2681				5106								
			085 STD	0190 0200	1465 1455	35965 3595	2681 2682	0013011	0290	1:	5104								
			085	0200	1455	35945	2682				5104								
			DBS	0225	1423	35875	2683 2685	0012791	0354		509 7 5093								
			STD 085	0250 0250	1401 1401	3584 35842	2685	0012171	0,55	1:	5093								
			510	0300	1371	3584	2691	0012374	0417		5092 5092								
			085	0300	1371	35835	2691				5068								
			D85	0330 0360	1293 1299	35635 35675	2692 2694				5076								
			085	0370	1271	35635	2696				5068								
			510	0400	1261	3567	2700	0011702	053		5069 5069								
			D85 085	0400 0440	1261 1171	35665 35447	2700 2 701				5042								
			085	0450	1111	35307	2701				5021								
			085	0470	1071	35307	2709 2715				5010								
			085 \$10	0480 0500	1026 1001	35285 3529	2719	0009955	064	6 1	4990								
			095	05 0 0	1001	35285	2719			-	4990								
			280	0540	0941	35295	2730 2738	0008174	073		4946								
			STD 08 S	0600 0600	0841 0841	3520 35195	2738	000017		1	4946								
			085	0620	0781	35105	2740				L4925 L4932								
			280	0630	0793	35165 35175	2743 2747				4929								
			D85 ST0	0660 0700	0771 0682		2752	000681	180 8		4900								
			085	0700	0682	35075	2752				14900 14904								
			085	0720	0682 0621		2757 2 7 57				14880								
			085 085	0730 0770	0551	34955	2760				14857								
			085	0780	0525	34915	2760	000589	8 087		14848 14849								
			STO		0519 0519		2761 2761	000589	5 067		14849								
			085 085	0800 0850	0504	34935	2764				14851								
			DBS	0870	0521	34995	2767	000533	9 093		14862 14859								
			210	0900	0501 0501		2768 2 7 68	000533	, 073		14859								
			280 280	0960	0481	34985	2771				14861								
			STO	1000	0479		2770	000513	6 098		14867 14867								
			085	1000 1100	0479		2770 2774	000489	6 103		14877								
			5T1 085	1100	0463	3 34998	2774				14877								
			085	1150	04 39	34979	2775	000485	6 10		14875								
			STI		04 39		2775 2 77 5	000485	0 100		14883								
			D85	1200 D 1300			2776		3 11		14893								
			085	1300	042	34965	2776		9 11		14893								
			ST	D 1400 1400			2 777 5 2 717		, , 11		14909								
			DBS ST				2778		8 12	26	14914								
			085	1500			5 2778				14914								

ERENCE SHIP	LATIT	UDE	ONGITUDE BOO	MARSOEN SQUARE	STATION				ATOR'S		DEPTH	MAX.		WA	VE	_	W.F.A.	CLOUD	T	-		
NO. COOS		1/10	1/10	10° 1°	MO DAY		re a R	CRUISE	NUMBER		TO MOTTOR	OF	000	SERV	A TIONS		THER	CODES			STATIO	NC.
18042 HT	4401	DNO	4100 H	149 41			968	020 00			4572	S'MPL'		HG		432	CODE	TYPE AM	ī		NUMB	_
	•	'	1	· -	ATER	WIND				\vdash	,	15	24	,1		1	X 1	0 3			000)8
				coro	R TRANS OIR	SPEED	METER		WET	VIS.	NO.	5 P E	CIAL	ĺ								
				CODE	in)	FOICE	(mba)		BULB	CODI	DEPTHS	OBSERV	ATIONS									
_				01	SD 24	506	295	156	139	6	25											
MESSEN TIME	CAST	CARD	DEPTH (m)	2 1	s -/	SIGMA	. T	SPECIFIC VOLU	MI E	Δο	sour	ua T		Τ.		Τ.				_	_	_
HR 1/3	10 7 100.	TYPE			1	3IGMA	1	ANDMALT-E	o, C.	∆ D N. M 10 ³	VELO	CITY	02 mi/l		O == P		1/1a - g	NO2-N ug - at/1	NO3-N ug - at/l	\$1 O4=	S: P	н
		510		1500	3453	2563	3	002367		00	150	68		+		+	-			-	-	_
0.5	0	085	0000	1500	34532		3 '		,		150			-		I	- 1	J				
		STD 280	0010	1596	3556	2620	0	001824	+ 00	21	151	12										
		510	0010 0020	1596 1594	3410																	
00	16	085	0020	1594	3610 36095	2662		001433	1 00	37	151.											
		STO	0030	1601	3613	2663 2663		001/-20			151											
		D85	0030	1601	36127	2663		0014284	• 00	52	1513											
		085	0040	1653	36225	2658					1517											
		210	0050	1646	3621	2658		0014778	3 00	81	1514											
		DBS	0050	1646	36205	2658	3		- •	•	1514											
		STO	0075	1596	3614	2665		0014224	01	17	151											
		DBS 510	0075 0100	1596	36140	2665					1513	30										
		085	01 00	1561 1561	3608	2668		0014013	01	52	1512											
		510	0125	1541	36075 3604	2668					1512											
		510	0150	1516	3600	2670 2672		0013914 0013754			1512											
		085	0150	1516	35999	2672		0013134	02.	22	1511											
		STO	0200	1448	3588	2678		0013339	02	RQ	1510											
		085	0200	1448	35880	2678				,	1510											
		STD	0250	1398	3578	2681		0013218	035	56	1509											
		08S ST0	0250	1358	35775	2681					1509	92										
		0.85	0300	1359	3568	2681		0013297	04.	22	1508											
		085	0350	1359 1290	35675 35695	2681					1508											
		STO	0400	1261	3562	2697 2697		0012045	05.		1507											
		085	0400	1261	35618	2697		0012045	054	• 9	1506											
		STD	05 00	1011	3523	2713		0010567	066	. >	1506											
		D 85	0500	1011	35225	2713		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	000	, ,	1499											
		210	0600	0875	3517	2731	(0008894	0.75	9	1495											
		085	0600	0875	35171	2731					1495											
		STQ 085	0700 0700	0741 0741	3506	2743	(0007820	084	3	1492											
		STD	0800	0518	35057	2743					1492											
		DBS	0800	0518	3491 34912	2761	-	005907	091	1	1484											
		STD	0900	0518	3501	2769		005274			1484											
		085	0900	0518	35014	2769	U	1000214	096	1	1486											
		\$ T O	1000	0479	3498	2770	0	005151	1 01	9	1486											
		DBS	1000	0479	34977	2770			. 51	•	1486											
		012	1100	0458	3499	2774	0	004868	1 06	9	1487											
		085	1100	0458	34993	2774					1487											
		STD 085	1200 1200	0444	3497	2774	0	004936	111	8	1488	5										
		\$10	1300	0444 0416	349 7 3 3496	2774	_				1488											
		D85	1300	0416	3496	2775	0	004802	116	7	1489											
		510	1400	0397	3494	2776	0	004780	121	_	14890											
		DBS	1400	0397	34937	2776	U	004180	121	,	14899											
		STO	1500	0378	3492	2777	0	004752	126	3	14899											
		085	1500	0378	34919	2777			120	٠	14908											

E	SHIP	1477	ns .	LDHGIT	NDE POR	MARS	DEN	STATIC (G	N TIME	YEAR	CRUISE		ATID	N .	DEPTH	DEPTH DF			A TIONS	THE	r CD	DES			STATE	ON BER
	CODE	LATITU	1/10	-	1/16	10*	1.		NY HR.1/		ND.		UMBI		572	5'MPL"	15	H G	1 16		117	3		_	00	_
2	нт	4406	N C	0410	14 W	149			8 11							13	1.7	ļ	1 .	. ^-	, ,	-				
,							WAT	-	WINI	PELO METI	D+	IR TEM	W E	VIS.	ND. DSS.	SPE	CIAL									
							COLDR	TRANS.	DIR	OR (mb)	i ii	ULB	BUL	.0	DEPTHS	D#1C#1	- 110111									
							OT	SD	18 5	10 27	B 1	44	13	9 6	37			_				_	_	_	-	_
١	MESSAGE		CARD			Τ.	70	ς.	., 1	SIGMA-T	SPECIFIC	¥010#		₹ A D DYN. M	501	UND	D 2 ml/l		PO4=P	101AL-	A NO:	~N	ND3~N yg - a1/l	51 D.	e=\$1	pН
- 1	TIME	CAST NO.	TYPE	´ '	DEPTH (m)	1 '	C	,		310			_	x 103	-	OCITY		1	yg • e1/1	₩g = 01	1 00-	****	yg - e1/1			_
	77 15	-	ST	0	0000		411	341		2555	002	4472	:	0000		035 035					ļ	I		1	-	
1	11	3	085	. '	0000		411 566	341		2555 25 6 9	002	3177	7	0024		094										
			511 085	υ	0010		566	347		2569						094										
			ST	0	0020	1	604	357	0	2629	001	7466	-	0044		118 118										
	00	8	085		0020		604	356 361		2629 2651	001	5379	3	0061		136										
			5 T		0030		640	360		2651					15	136										
			5.1		0050		561	360	8	8445	001	3855	5	0090		114										
			085		0050		561	360		2668 2670						114										
			08\$ ST		0060 0075		1581 1551	361 361		2672	001	357	3	0124	15	116										
			085		0075	1	1551	360	95	2672				.150		116										
			ST	0	0100		1551	361		2674 2674	001	.3431	و	0158		120										
			08S S T		01 00 01 25		1551 1541	361 361		2676	001	336	8	0191	15	121										
			085		0125		1541	361	115	2676			_			121										
			51	0	0150		1518	361		2679 2679	001	309	в	0224		118										
			085 ST		0150 0200		1518 1396	35	095 83	2685	001	1266	9	0289	19	083										
			085		0200		1396		825	2685						083										
			5 T		0250		1295	35		2689	001	1243	7	0352		055										
			085		0250 0270		1295 1261		600 515	2689 2689						046										
			085		0270		1271		585	2692						054										
			51		0300		1255	35		2693	00	1209	6	0413		5050										
			085		0300		1255 1229		559 515	2693 2695						5044										
			089		0340		1251		620	2699						5056										
			069		0350		1201		495	2699				0528		5039 5014										
				10	0400		1111		40 395	2708 2708	UU	1086	L	0526		5014										
			069	> TD	0400 0500		0941		24	2725	00	0930	7	0629		4967										
			081		0500		0941		235	2725						4967 4947										
			08		0520		0861 0791		135 040	2727 2734						4915										
			08		0540 0550		0846		155	2734						4939										
				TD	0600		0783	35	15	2743	00	0763	39	071		4923 4923										
			08		0600		0783		065	2743 2745						4904										
			08 08		0610 0630		0731		125	2745						4920										
			08	S	0650		0681	35	035	2749						4891 4848										
			08		0660 0700		0573		920	2754 2757	0.0	061	92	078		4851										
			08	T D	0700		0565		940	2757					1	4851										
				TD	0800		0510	34	95	2764	00	055	60	084		4846										
			08		0800		0510		945	2764 2768	0.0	052	54	089		4851										
			S 08	TD.	0900		04.83		955	2768					1	4851										
				10	1000		0475	34	97	2770	0.0	0051	58	094		4865										
			08	i S	1000		0479		1969 197	2770	0.0	0049	06	099		4869										
			S 08	3 T D	1100		0445		4965	2773					1	4869	ì									
				510	1200		042	3 .	496	2775	01	0047	71	104		4876										
			0.6	35	1200		0421		4955	2775 2775	0	0048	0.2	109		L4876 L4890										
				510	1300 1300		0416	5 3: 5 3:	496 4955	2775	0	- U-T 0	32	. 37	1	4890)									
			06	5T0	1400		040	1 3	496	2777	0	0047	00	114		4901										
			DE	85	1400		040	1 3	4955	2777		004	50	116		14901 1491										
				510	1500		039		496 4955	2778 2 77 8	0	00+6	, , ,	110		1491										
			O.	85	1500		039	. >	.,,,,																	

REFERENCE	,									_		_													
CTRT ID.	CODE	LATITU	301	LONGITUDE	2 K	ARSDEN BUARE	STATION T	ME	YEAR	-	DRIGIN.	ATDR'S TATION		DEPTN		TN n	WA	VE ATIONS	W	YEA-	CLOUD		_	NOD	С
318042		4410	1/10	1/10	10	_	MD DAY H			١.	ND. N	UMBER		BOTTO	3 mr			PER SE			TYPE AM			STATIO	IER
310042	11	4410	ואי	04103 W	14	1			1968	0	20 010			4572	1 :	5 20		1	. ×	12	0 3			001	0
						COLO	,	SPEED	BAR	0-	A IR TEA		VIL	ND. OAS.		PECIAL	7								1
						CDDI	int Dix	SPEED OR FORC		1	BULR	WET BULS	COD	DEPTH	DISE	AVA TION	\$								
						01	50 15	513	25	7	150	144	6	34			7								
	MESSENGE TIME HR 1/10	CAST NO.	CARE	DEPTN (m		7 7	5 %.	SIG	MA-T	SPE	CIFIC YOLU	, š	Δ D YN. M K 10 ³	. SO	UND	D2 m		O4=P	1014		ND3-N	ND3-N			H 5
			ST			1201	3329	25	28	0	027032		000	-	953	-	-+-	-	-		34 - do .	νg - αι/	1 vg -	91/1	c
	170)	085	0000		1201	33285	25				,		14	953	(l	- 1		- 1	- 1				- 1
			085	0010 0010		1161 1161	3390 33895	25 25		0	021851	. 0	024		949										
			ST			1331	3460	26		0	019875	0.0	04.5		949 017										
	008	i	085	0020		1331	34595	26				•	•		017										
			085	0030		1581	3578	26		00	016413	0	J6 3		114										
			510			1581 1593	35775 3600	26		0.0	015135		20.5		114										
			085	0050		1593	35995	26		00	112133	00	95		123 123										
			STO			1521	3595	26		00	014023	01	31		104										
			085	0075		1521	35945	26							104										
			085	0100		1511	3595 35945	26		00	013888	01	66	15											
			STO			1501	3595	26		0.0	13752	n a	201	151											
			08\$	0125		1501	35945	26		-		02	. • 1	15											
			085	0140		1521	36015	26						151											
			085	0150 0150		1511 1511	3600 35995	26		00	013677	02	35	15											
			510			408	3578	26		oc	13278	0.3	03	151											
			085	0200	1	408	35775	26		•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,	.03	150											
			085	0230		251	35390	268						150											
			085	0250		293	3554 35535	268		00	12873	03	68	150											
			STO	0300		271	3556	268		nο	12434	04	31	150											
			085	0300	1	271	35555	269		•	12 134	04	71	150											
			085	0350		241	35535	269						150											
			STC 085	0400		181	3539 35385	269		00	12220	05	54	150											
			085	0460		041	35095	269						150											
			085	0485		923	35150	272						149											
			510			1961	3527	272		00	09422	06	63	149											
			085 085	05 0 0 05 3 0		961	35265 35025	272						149											
			08\$	0540		871	35175	272						149											
			085	0588		781	35035	273						149											
			STO			661	3488	274		00	07804	0.7	49	148											
			085	0600 0610		661 602	34880	274						148											
			085	0620		711	34830 35015	274						148											
			510	0700		641	3500	275		00	06823	08	22	148											
			085	0700		641	34995	275	2					148	82										
			ST0 085	0800 0800		571 571	3497 34965	275	8	00	06218	08	87	148											
			STO			531	3500	275		n n	05549	09		148											
			085	0900	0	5 3 1		276		50	00049	0 %	70	148 148											
			012	1000		502	3497	276	7	00	05504	10	01	148											
			085 STO	1000 1100		502 457		276						148											
			085	1100		457		277		000	04937	1 05	>4	148											
			STO	1200		431		277		000	04899	110	3	148											
			085	1200		4.31	34955	277	4				-	148											
			ST0 085	1300 1300		411		277		000	04811	115	52	148	88										
			510	1400		411 411		277 277		101	V. 830	1.34	0.0	148											
			085	1400		411		277		,,,,	34830	120	10	1490											
			STO	1500	0.	01	3496	277		000	34790	124	8	149											
		(085	1500	0	+01	34955	277	7					1491											

FERENCE	Ι,	SHIP		.01		GITUDE TO S	MARS	OEN	STATION	TIME		AR		NGIN 41			DEPTH	DEPTH		WA.	VE ATION S		EA-	CLDUD			NODC STATION
10	c	100	LATITU	1/10	LON	GITUDE BY	10*	. 1	MO DAT				NO.	STA NU	MBER		NOTTON	S'MPL'S	018			100		TIPE AM			HUWIE
8042	1	HT :	4413	_	04	105 H	149		07 08	238		968	020	011		4	572	15	16	,	2	X	4	0 3			001
	1 .					1	' í	WAT	ER	WING	1	9ARO-	AI	R TEMP	7		NO.			٦' '			,			,	
							İ	COLDR	TEANS DE	SPE C	EED OF	METER		r I	WET C	VIL.	OBS. DEPTHS	SPEC	ATION	5							
							-	OT	50 1	7.0		(mbal 2 4 7			_	3	35			-							
	_			_			,	01	30 1	, 3,	2	241	13	, ,		_		L,		Ц,			_				
	41	ESSENGE TIME D	CAST	CA	*0	DEPTH (m)	1	₹	s */	s	IGMA	-1	SPECIFIC ANOMA	VOLU41	I ≨ ∠ DYN	7 0		DAD	0 2 m		O g = P	LOTAL	#	NO2-N	NO ₃ =N	21 O 4 =	51 82
	н	1/10	NU.						1	\perp					_		_			- 1	- 61/1	yg - 0	171	¥ğ - ∉t/1	μg - d1/1	NB - 01	1-
					TO	0000		161	3326		533		0026	545	001	00		939			- (- 1				
		2 30		0.8	10	0000		161 201	3325 3489		652		0015	242	00	21	14										
				0.8		0010		201	,,	-																	
				S	ΤO	0020		501	3584		663		0014	197	00	36	15										
		005		08		0020		501	35841		663			255	000			880									
				S 08	10	0030		518 518	3610 3610		657		0014	855	00	50	15	129 129									
				08		0040		530	3614		658						15										
					ro .	0050		541	3612		676		0013	097	00	78	15										
				08	S	0050		541																			
					10	0075		539	3605		671		0013	679	01	12		111									
				08	5 T O	00 75 01 00		539 511	3604 3558		671		0013	669	01	46		106									
				08		0100		511	3557		672		3013	55,	01			106									
				0.8		0110		5 3 1	3609	5 2	676	5					15	115									
					10	0125		501	3602		67		0013	242	01	79		107									
				0.6		0125		501	3601 3605		67		0013	100	02	1 2		107 112									
				08	10	0150 0150		501 501	3604		679		0013	100	VZ	1 2		112									
				0.8		0170		440	3591		683							094									
					TΟ	0200		401	3588		688		0012	406	0.2	76		086									
				0.8		0200		401	3587		68							086									
					10	0250		331	3570 3569		689		0012	452	03	38		069 069									
				08	10	0250		33 1 301	3570		695		0011	997	03	99		067									
				0.8		0300		301	3569		69							067									
				ΩB		0305		261	3559		69							053									
				0.8		0330		284	3567		69							066									
				0.6		0360 0370		261 231	3566 3558		700							063 053									
				08	10	0400		183	3553		70		0011	235	05	16		041									
				0.8		0400		183	3552		70							041									
				08		0440		121	3547		71							025									
				0.8		0460		061	3535		714		0010			2.2		006									
				0.6	10	0500 0500		021 021	3530 3529		271 e 271 e		0010	1228	06	23		997 997									
				08		0520		981	3529		72							986									
				08		0530		921	3519	5 8	72	6					14	964									
				S	TΩ	0600	0	791	3510		731		0008	3129	07	15		926									
				0.6		0600		791	3509 3500		73		0006		0.7	89		926 382									
				0.6	10	0700 0700		641 641	3499		275. 275.		0000	1823	07	07		882									
					TO	0800		551	3500		276		0009	728	08	152		863									
				06		0800		551	3499		76						14	863									
					TΟ	0900		483	3497		76		0009	180	09	07		851									
				0.8		0900		483	3496 3497		276		0005	007	0.0	58		85 1 859									
				O E	10	1000		461 461	3497		277		0005	,007	09	פכי		859									
					.10	1100		441	3498		277		0004	781	10	07		868									
				0.6		1100		441	3497		77						14	868									
					10	1200		421	3497		277		0004	697	10	54		876									
				0.6		1200		421	3456		277		000			0.1		876									
				0.6	10	1300 1300		411 411	3497 3496		277 277		0004	1004	11	01		888 688									
					10	1400		395	3496		277		0004	622	11	47		898									
				0.8		1400		395	3495	5 2	277	6					14	898									
				5	TO	1500		385	3495		277		0004	616	11	93		911									
				0.6	3.5	1500	0	385	3495	0 2	277	8					14	911									

REFERENCE	SHIP				= MA	RSDEN	STATION	TIAAS			RIGINA	10.015	_		MA										
CTRY ID.	CODE	LATITUDE 1/10		NGITUBE	A 20	UARE	IGAT	, 1	YEAR	CRUISE	STA	ATION	\neg	DEPTN TO	DEPT	H n	WA SERVA	ve KTIONS		WEA- THER	CLON	D S		NDD	c.
318042	НТ	43595N	-	4103 H	144	9 31		110	1969	020		MBER	-	MOTTON	S, M bi	'S DIR		PER SI	-	CDDE	TYPE A			NUMB	
			'		1	_		WIND		1	IR TEMP	· モ T	-14	572	15	00	,	()	X 4	0 3		1	001	12
						CDLO	R TRANS DIE	SPEEC	MET	ER D	RY	WET	VIS.	ND. DBS.	92280	ECIAL VATION:									
						OT	50 19	511	F (mp)	_		BULL	٦,	DEFINS	023[1	TA HOA									
	- Later Land		_			101	30 17	1311	119	6 17	2]	167	3	27											
	MESSENGE TIME HR 1/10	NO. T	ARD YPE	DEPTH (m)		1 6	s ·4.	SIG	MA-1	SPECIFIC	VOLUME L7-E10 ⁷	DYN	. M	SDU		O ₂ ml.		04~P	101	A L = P	NO3~N	NO3~1			н
	1		TO	0000		479	3440	25		0024	241	000		150	60	_	+		-	-		yg - 0.,	-	-	
	111		10	0000		500	34395	2.5						150	60		ı	- 1		- 1					- 1
		DE		0010		500	3544	26	5 5	0017	067	002	21	150	81										
			OT	0020		572	3597	26	57	0014	764	003	17	151	1.2										
	305			0020		572	35970	26				• • • •	•	151											
		60 80	TO	0030		560	3598	26		0014	500	0.05	1	151											
		08		0030		560 547	35975 35975	26						151											
			10	0050		542	3599	26 26		0014	081	008		151											
		OB		0050		542	35988	26		0014	001	000	• •	151											
			10	0075		515	3596	25	70	0013	786	011	5	151											
		0.8	5 T0	0075 0100		515	35960	26						151											
		08		0100		495 495	3593 35925	26		0013	695	014	9	151											
			ŦΩ	0125		460	3588	26		0013	6.01	018	2	151											
		08	5	0125		460	35875	26		0013	401	010	3	150											
			10	0150		380	3574	268		0012	858	021	6	1500											
		0 B 0 B		0150		360	35735	26						150	69										
			TD	0175 0200		360 293	35675 3556	268		0010			_	1500											
		ОВ		0200		293	35555	268		0012	542	027	9	1504											
		08		0225		2 30	35445	268						1504											
			ro	0250		223	3546	269		00121	117	034	1	1502											
		0.8	> 10	0250 0300		223	35455	269						1502	29										
		08		0300		187 187	3539 35385	269		00120	382	040	2	1502											
			T 0	0400		040	3525	271		00106	465	051	6	1502											
		089		0400	10	040	35250	2 71		00.00	303	031	,	1498											
			ro	0500		320	3504	272		00088	301	061	3	1492											
		085	s To	0500 0600		320	35040	272						1492	20										
		089		0600		558 558	3504 35035	275		00066	18	0691	0	1487											
		51	ſΩ	0700		41	3512	276		00059	39	075	3	1487											
		085		0700		41	35115	276			-	515	-	1488											
		51 085		0800		30	1499	276		00055	25	0810	0	1485											
		51		0800 0900		98	34985 3500	276						1485											
		085		0900		98	34995	276		00051	52	0863		1485											
		ST	0	1000		57	3496	277		00049	93	0914		1485											
		089		1000		57	34960	277		, ,		0 /1-		1485											
		ST 085		1100		+1	3496	277		00049	28	0964		1486											
		S T		1100 1200		29	34955 3496	277		00010				1486											
		085		1200		29	34955	277		00048	14	1013		1487											
		ST		1300		40	3496	277		00051	16	1062		1487 1490											
		085		1300		40	34955	277	3		-			1490											
		S T D B S		1400 1400	04		3496	277		00048	30	1112		1490											
		57		1500	04		34955 3493	277		20010	2.0			1490											
		085		1500	03		34925	277		00048	45	1160		1491											
				-					-					1491.	1										

CE	SHIP				F DOUNT	M	ARSDEN	STATIC (G	N TIM	E YE	AR I	ORIGINA RUISE ST	TOR'S ATION		DEPTH 10	Otrin		WAVE RVATION		THER	COOES	1	NODC STATION NUMBER
_	300	LATITU	0E LO	NGITUO 'I	/10 S g			40 O				NO. NI	I M BER		0110	M S'MPL"		HGT PER		-	TIFE AM	T	0013
14.2	нТ	4410							9 1		68	020 013		4	57	15	00		0	X.2	1012	1	1 001
,	[-	,		'		WAT	9.9	wi		BARO-	A IR TEM		VIS.	NO.	SPE	CIAL						
							COLOR	TRANS.	DIR.	SPEED OR FORCE	(mbs)	DRY	W ET BULB	CODE	OBS. DEFTH	OBZERV	ATIONS						
							DT	SD	32	507	2 C5	161	150	6	38							, ,	
_				_		Τ			_			SPECIFIC VOLUM	A1 3	ΔD	,	OUND	O2 ml/t	PO 4-	P 1	OTAL-			51 O4-51 pH
- 1	TIME	CAST	CARD	DEF	TH (m)		1 ℃	5	4.	SIGMA	-1	SPECIFIC VOLUM	9	ΔD γΝ. Μ x 10 ³	V	LOCITY	07 mi/t	µg - 61	/1	⊌g • 61/1	ug - 01/i	μg - αl/i	yg - a1/1
1	R 1/10	-	STO	- 0	000	+	1522	344	2	2549	7	0024967	7 0	000		5074		T -					1
}	17	7	DBS		000	1	1522	344		2549				.071		50 7 4 ' 5109 '							
			5 T 0		010		1583	356 355		2626		0017706	, ,	1 200		5109							
			D8S ST0		010 020		1583 1581	360		2658		0014711	i c	038		5115							
			085		020		1581	360	104	2651				05.2		5115 5113							
			SID		030		1572	359		265		0014749	, (052		5113							
			OBS		030 050		1572 1541	359		265		001411	7 (081		5107							
			510 D85		050		1541		80	266						5107							
			STD	C	075		1530	360		267		0013770	U (0116		5108 5108							
			088		075		1530 1513	360	306	267 267		001368	2 (0150		5106							
			STD 085		100		1513		979 979	267					1	5106							
			STD		125		1460	35	84	267	2	001369	3	0185		5092 5092							
			OBS	(125		1460	35	835	267 267		001317	0	0218		5073							
			STO		150		1394 1394	35	731	267		00151	•		1	5073							
			DBS S T 0		200		1317	35		268		001291	4	0283		5054							
			085		00 20		1317		575	268						5054							
			DBS		0215		1246	35 35	440	268 268		001233	6	0346		5026							
			5 1 12 085		0250		1216 1216		407	268		001033	_			5026							
			ST		0300		1168	35	37	269		001187	0	0407		15017							
			085		0300		1168		366	269 2 7 1						15017 14960							
			DBS		0385		0974 0883		167 01	271		000982	6	0515		4926							
			5 1 1		0400 0400		0883		004	-						14926							
			OBS		0415		0891		071	2.72						14933 14919							
			085		0420		0855		015							14923							
			08\$		04 30 0460		0861 0766		895 895							14890							
			08S		0465		0827	35	015	272	26					14916							
			085		0495		0741		895			000797	7.5	060		14886 14885							
			ST		0500		0733		98	2 7 :		000191	1)	000		14885							
			D8\$		0500		0683		993							14876							
			ST		0600		0669	3 5	06	27		00065	74	067		14878 14878							
			D85		0600		0669		062 5095							14883							
			D8S D8S		0635		0665		5070							14373	3						
			085		0670		06 39	3	5080	27	59					14878							
			ST	D	0700		058		497	27		00061	84	074	ī	14858							
			085		0700		0581 0539		497(4935							14843							
			08S ST		0800		050		497	27		00052	78	079	8	1484							
			089		0800		050	3 3	497		67	0000	0.7	005	. 0	14843							
			ST	0	0900		048		497		70	00051	03	085	U	1485							
			089		1000		048		497; 495		72	00049	26	090	0	1485	1						
			S1 D83		1000		044		494	5 27	72	-			_	1485							
			S1		1100	0	043	0 3	494		73	00048	169	094	9	1486							
			D89		1100		043		494 495		173 174	00048	124	099	98	1487							
				D	120		042		495 494		774	00000	- •			1487	5						
			D85	5 10	130		043	1 3	497	27	775	00049	924	104	• 7	1489							
			DB!	5	130	0	043	1 3	496		775					1489							
			08		134		042 040		496		775 775	00048	370	10	95	1490							
			S. 8.0	T D	140		040	-	493		775					1490	0						
				5 T 0	150		039	0 3	492	2.	775	00049	938	11	45	1491							
			DB		150		039	0 3	491	5 2	775					1491	,						

Table XII.—Observed and interpolated oceanographic data for stations taken by USCGC DALLAS at Ocean Station DELTA, 13 July–4 August 1968, prepared from NODC listing No. 31–1339 DG.

CTIY ID. CODE LAT	7/10 L	ONGITUDE 1	MARS DEN SQUARE	STATION	YE.		ORIGINA SE ST	ATION	DEPTH TO BOTTOM	MAX. DEPTH OF		WAVE SERVATION	÷5	WEA- THER	CLOUD		S	NOOC TATION
		4105 W	10 1	07 13	145 19	68 DZ	_	#38 AAL	4663	5'MPL'S	04	1 2	44.0	X 1	8 6	-		0001
	,	,	WA			BARO-	AIR TEM	P 10	NO.	SPEC	Ь	1- 1- 1	I	-	1 - 1-	I		0001
			CODE	(A)	PORCE		DRY BULB	WET COD	OBS. DEPTHS	ORSERVA	TIONS							
				00	200	200	144	128 7	14									
MESSENGE CAS	CARO TYPE	OEPTH (m)	7.1	s */	SIGMA-	T SPECIF	MALY-EIR	N AID	SOU	INO	O3 m1/1	PO4-P		AL-P	NO2-N	NO3-N	5104-5	pH
HB 1/10	STO	0000	1558	3360	2479		31 712	3 10 ₃	150			yg - 41/	, ,,,	e1/1	µg - qt/l	yg - at/l	µg - 01/1	-
145	'08\$ 51 0	0000	1558 1639	33599 3488	2479 2558	'		'	150	75		1	1	1		l	l	I
	510	0020	1684	3578	2617		24145 18626	0028 0049	151 151									
145	085 5 7 0	0025	1694 1671	36093 3611	2638 2645	0.01	15957	0067	151	51								
	STD	0050	1606	3619	2606		4036	0097	151 151									
145	085 510	0051 0075	1604 1585	36189 3619	2667 2671	001	13648	0131	151 151									
145	085	0076	1584	36186	2671				151									
145	510 085	0100 0102	1569 1568	3616 36160	2673 2673	001	3554	0165	151 151									
	5 T D 5 T D	0125	1558	3616	2675		3437	0199	151	27								
145	085	0150 0155	1549 1548	3615 36150	2677 26 7 7	001	3357	0232	151 151									
145	5T0 085	0200 T0204	1540	3e15	2679	100	3326	0299	151	33								
* ***	STD	0250	1538 1467	36146 3598	2679 2682		3157	0365	151 151									
145	5 T 0	0300 03 0 6	1387 1377	3582 35800	2687 2687		2809	0430	150	97								
	510	0400	1223	3559	2702	001	1517	0552	150 150									
145	085 5TD	T0408 0500	1207 0991	35570 3527	2704 2720	000	9894	0659	150 149									
145 145	08\$	0504	0979	35253	2720	000	7077	0007	149	82								
143	085 5T0	10591 0600	0682 0668	34942 3494	2742 2744	000	7453	0746	148									
145	OTZ	0700	0540	3493	2759		5960	0813	148	41								
143	08\$ 5TO	0783 0800	0476 0476	34915 3493	2766 2767	000	5239	0869	148									
145	510 280	0900 T0972	0473	3498 35005	2771		4942	0 92 0	148	47								
	STO	1000	0467	3501	2774	000	4789	0968	148									
	510 510	1100 1200	0458 0447	3500 3500	2775 2776		4787	1016	148	75								
	510	1300	0432	3500	2778		4755 4666	1064	1488									
145	510 085	1400 1455	0415 0404	3500 35001	2779 2780	000	4539	1157	1490									
					2,00				143	1.2								
REFERENCE			MARSDEN	STATION TO	mt T		ORIGINAT	ON'S	DEPTH	MAX.		WAVE		V.S.A.	CLOUD			
REFERENCE CTAY ID. CODE CODE CODE NO.	'UDE LO	NGITUDE 1/10	SOUARE	STATION THE		CILUISE NO.	STA	DON	1077044	DEPTH	OBSE	WAVE RVATIONS	[]	VEA- HER ODE -	CLOUD		N ST/	OOC ATION
CTET ID. COOF LATIT	1/10	NGITUDE 1500M	10° 1° 1	07 14 1	34 196	CHUISE NO. 8 021	STA NU:	TION MRER 4	10	DEPTH	OBSE	RVATIONS	EA CI	HER			NU	OOC ATION JABER
CTAY ID. CODE LATIT	1/10	1/10	10° 1° 3 149 41 (07 14 1	34 196	B 021	STA NU: O O Z	TON WHER 4	663 NO.	OF S'MPL'S	17	RVATIONS	EA CI	HER ODE -	CODES		NU	1 W 8 E S
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REFERENCE	SHIP	LATITUDE	10HCITUOI	MARSOI SQUAR	N STAT	ON TIME		ORIGINATOR"		EPTH	MAZ.	14/4	v.f.	1	T				
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	MESSENG	CAST	CAF	0	DEPTH Uni	١,	Υ.	s °/.	.	SIGMA	-T	SPECIFIC VOLU	M.t	₹ A D		DCITY	D2 ml/		O4-P 1 41/1	ug . 01/		g - at/l	μη - σt/l	yg = 01/1	ρH
	HR 1/1	NO.	TYF		DEFIN ON							And the last		x 103			-	-		-	+			-	-
	PIR 171	-	S	[0]	0000	1	642	3519		258	1	0021934	4	0000		120	1	-			1			1	1
	13	3	OB		0000	1	642	3518	8	258	ı	•				120									
	1.5	,		T D	0010	1	641	3519		258		002194		0022		122									
				TO	0020	1	640	3519		258		0021 96	7	0 04 4		123									
	1 3	. 3	OB.		0024	1	640	3518	7	258			_		_	124									
	1 -	, ,		10	0030	1	638	3546		260		001995	9	0065		127									
	1.3	13	0.8		0049	1	625	3603	6	265			_		_	133									
	• -	, ,	S	TO	0050	1	623	3604		265		001546	7	0100		133									
	1.3	13	0.8		0073	1	590	3615		266			_			128 128									
	• •		S	TD	0075	1	589	3615		260		001399	1	0137		5127									
	1.3	3.3	0.8	S	0098	1	573	3615		267					-	5127									
		_	S	T D	0100		572	3615		267		001370		0172	-	5126									
			Ş	T O	0125		556	3614		267		001351	U	0206		126									
	1	3 3	0.8	S	0146		547	361		267		0013/5	2	0239		5127									
			S	T O	0150		1547	361		267		001345	-	025		5132									
	1	33	0.8	\$	TO194		1539	3613		267		001336		030		5132									
			S	TD	0200		1536	361		261		001338		037	-	5132									
				TD	0250		1510	3610		265		001320	, ,	051		5131									
	1	33	O E		0290		1490	360		261		001343	12	044		5127									
				TD	0300		1473	355		268		001342	, ,	044		5082									
	1	33	0.6		10389		1305	356		26		001230) H	056		5075									
				10	0400		1279	356		27		001230	,,,	0,0		5028									
	1	33	0.6		0480		1109	354		27		001021	12	068		501									
				0.13	0500		1072	354 352		27		55102		- 0		4981									
	1	33		3.5	10574		0910	352		27		000925	5.3	077	8 1	4972	2								
				510	0600		0778	351		27		00076		086	3 1	4938	3								
				STD	0762		0704	351		27		• • • • • • • • • • • • • • • • • • • •			1	491	•								
	1	33		85 5 T 0	0800		0661	350		27		00065	56	093	4 1	4901	3								
					0900		0558			27		00057		099	5 1	438	3								
		2.2		S T O B S	10954		0508			27					1	407	l								
	1	. 33		510	1000			349		- '															
				STO	1100			349																	
				STO	1200			349																	
				STO	1300			349																	
				STO	1400			340	7																
	1	133		RS	1440			349	70																

			- 1		-	MARSDEN		-						_				_	_				
CTRY ID.	CODE	CATEFUE	3.	LONGITUDE	MOCT	SQUARE	STATION (GM)		EAR		ATOR'S		EPTH TO	MAX, DEPTN	١.,	WA	VE ATIONS	WE					NDDC
CODE NO.			1/10	1/10	3	10, 1,	MD DAY	HR.1/10			NOITAT2		110.44	OF S'MPL'S	DIR		PIE SI	1 2 2 2 2		- 1			NUMBER
311339	DG	4412	NI	04053 W	1	49 40	07 22	142 1	968	D21 00	9	46	63	14	27		2	X 4	X			-	0009
						W A	TER	WIND	BARC	AIR TE		, N	ю.		_	ו' ו'	- 1		F I	. 1		- 1	000)
						COLOS			METE	R DRY	WET C	Ond O		SPEC DOSERVA	IAL LTIONS								
							00	SOO	257				_			1							
	MESSENGE				_		- 100	300	201	194	178 9	5 1	4										
	TIME		CARD	DEPTH W	N1	r to	5 %.	SIGMA	_t	SMCIFIC VOLU	Mt SA	D	SOUP		Do ml/	PC	04-6	TOTAL-	NO2-	, ,	NO3-N	SID4-5	
	HR 1/10				-				_1	ANOMALI-II	X 1		AFFDG	CITY	U g IMIZI		- 01/)	wg - a1/1			g - al/l	V0 - 01/	
			STO			1808	3614	2614		001880	7 000	00	151	81		+-	_		-	+	_		†
	142		085	0000		1808	36140	2614			'		151			1	- 1		1	1			1
			STO			1805	3615	2616		001869		9	1518	8.2									
	142		08S	0020		1801	3616	2617		001859	0 003		1518										
	. 72		STO			1800 1768	36160	2618		001777			1518										
	142		Des	0048		1701	3623 36320	2631 2654		001731	7 005		151										
			SIC			1696	3631	2655		001517			1516										
	142		085	0072		1645	36229	2660		001514	3 008		1515										
			STO			1640	3622	2661		001461	7 012		1514 1514										
	142		085	0097		1609	36186	2666		001701	012		1513										
			STO	0100		1606	3613	2666		0014234	016		1513										
			STD	0125		1500	3615	2670		0013961			1513										
	142	1	280	0143		1565	36134	2672			. 017	-	1513										
			STO			1562	3613	2672		0013792	023		1513										
	142	(DBS	0190		1539	36102	2675					513										
			SID	0200		1533	3609	2676		0013611	030		513										
			SID	0250		1492	3599	2677		0013614	036	8 1	512	.5									
	142		285	0283		1455	35923	2680				1	511	. 7									
	142		ST0 88	0300		1433	3588	2681		0013321	043	5 1	511	. 3									
	142	(STO	T0373		1318	35697	2691					508	15									
	142		31D	0400		1259	3561	2697		0012064	056	2 1	506	8									
	142	L	2 1 0	0464 0500		1126	35424	2708					503										
	142	-	3 I U	T0545		1055 0972	3534	2714		001 04 95	067	_	501										
			STD	0600		0972	35252	2722		0000			498										
			STO	0700		0731	3520 3514	2734 2751		0008665			495										
	142	C	185	0730		0696	35124	2754		0007060	084		492										
		-	STO	0800		0643	3511	2761	,	200-126	001		491										
			STO	0900		0578	3509	2768		0006136 0005495			490										
	142	0	88	10913		0570	35092	2768	,	0003493	097		489										
			STO	1000		0523	3508	2773	-	0004974	1026		489 488										
			STD	1100		0480	3506	2777		0004514	1074		488										
			STO	1200		0447	3503	2778		0004556	1120		488										
			STD	1300		0426	3501	2779		0004528	1165		489										
	142	D	BS	T1386		0417	34992	2778					490										

ERENCE	SHIP	LATITU	D.C	1		: 5	MARSOE	N	STATION	TIME			ORIGI	NATOR'S		DEFTH	MA		WAVE	-		CLOUR	1		
ID.	CODE	· Aut	I/10		HGITUDE 1/10	90	SOUAR	_	(GA	_	YEAR			STATIO!		10	DEPT		SERVATION	5	WEA+ THER	CODES			NODC
1339	DG	4417		+		-				HR.1/1		NI.	_	NUMBE	A	BOTTOM	S'MPL		HGT PER	SEA	CODE	TTPT AM	+		NUMBER
	1 00 1	4411	N	104	112 W	۵	149 4	1	07 23	129	196	8 02	1 01	0		4663	13	20	1		X 6	6 8	T -		0010
								WAT		WIND	- 10	RO-	AIR TE	MP. C	Τ.	NO.	1		' ' '	- 1			1	1	
							CC	DOE	TRANS D	IR 0	ME	TER	ORT	WET	COD	O95.	CHISER	ECIAL VATIONS							
								300		100	Ct [m	ba1	Butt	BULR		DEPTHS									
									2	0 \$2	5 1	76	183	178	6	14									
	MISSING	CAST	CA	AD.								T		1.	E 🛆 0		_	_	_	_	_				_
	TIME HR 1/10	NO.	11	PE	DEPTH (m	']	1 %		s */.	. SI	GMA-T	AHI	IFIC VDLL	107	TN, M		CITY	D 2 ml/	PO4-P			NO2-N	NO3-N	SI D4-SI	
			- 6	TO	0000	-	178	2	3595	-	_	-		_	X 103				yg + et/1	»0 ·	01/7	ug + at/1	µg - 61/I	νg - α1/1	1 "
	129	'	D B		0000						506	00	1950	3 0	000	151					П				
				Tρ	0010		178		3595		506					151								1	1
	129		06		0019				3597		51.7	00	1860	4 0	019	151									
				TΩ	0020		172		3602		526			_		151									
				τo	0030		172		3604		28		1757		037	151									
	129		08		00 41		171		3619		542	00	1631	3 0	054	151									
				Tρ	0050		170		3627		51			_		151									
	129		08		0063		161		3624		559	00	1474	7 0	085	151									
				Tρ	0075				36191		666					151									
	129		08		0015		159		3616		67	00	1405	7 0	121	151									
	12,			T D	0100		158		36150		800					151	29								
				TD	0125		157		3616		71		1375		156	151	28								
	129		DB:		0128		156		3617		75	00	1348	0 0	190	151	28								
	12,			T D	0128		156		36166		75					151	29								
	129		08		T0169		155		3616		75	0.0	1350	9 0	224	151	31								
	12,			Tρ	0200		155		36154		76					151									
				Tρ	02 50		153		3612		7.7		1347		291	151	32								
	129		DB:		0256		148		3602		80	00	1328	9 0	358	151	23								
				ro	0300		147		35999	-	81					151	21								
	129		DPS		0341		136		35.82		87	00	12788	3 O	423	150									
	12/		51		0400		131		35687		92					150									
	129		089		0429		123		3560		01	001	11616	0	545	150									
	12,		51		0500		1186		35545		06					150									
	129		085		0517		105		3537		17	001	10222	. 0	55	150									
	167		SI		0600		1018		35328		20					149									
	129		DAS				079		3509		38	000	081 97	0.	747	149.									
	167		SI		0682		063		34558		49					148									
			ST		0800		0627		3497	27			06312		322	148									
	129		085		T0853		0566		3500	2.7		000	05892	0.8	885	148	69								
	127		SI				0537		35012							1486	56								
			5 T		0900		0514		3501		69		15273		41	1486	55								
			ST		1000		0472		3500	27			920		92	1486	54								
			ST		1100		0441		3499	27			04700		0 +0	1486	58								
			ST		1200		0415		3478	27)4598		87	148	75								
	129				1300		0407		3496	2 7		000	4620	11	33	1488	37								
	154		085		T1328		0405		34961	27	7.7					1489	2.1								

ict	SNIP	LATITUD	.	100	GITUDE	180	MAR		STATIC	N TIM		(EAR	CRUISE	DRIGINA	TDR'S ATION		EPTH TD	MAX. DEPTH		SER	A VE VATIONS	WEATHER	CLOUD		5	NDDC MATION	
ID.	CODE		1/10	LUM	1/10		10*			AY HR.			ND		JMBER	80	TTDM	S'MPL"	S DIE	н	अम्बर्ग अ	CODE	TYPI AM	1	_	RZBMU	
	DC	4402	-	040	47 H		149		07 2			9он	021	011		46	6.3	14	35	1	2	X 1	6 5		- 1	0011	
339	DG	4402	14	040	,4, 4	101	177	WAI		WI		_	· —	AIR TEM	PY	۲.	ND.	_	_	ı'	1 1	'					
											SPEED	METE	· -	DRY		IE C	D#5.		CIAL VATIONS								
								CODE	TRANS.	DIR.	Office	(mbe		IUL#	eure .	DE	PTHS	DESERV									
									1		505	244	· 1	67	139 7	1	14			1							
				_			-		\vdash			١-	_		- T			-		1							1
	MESSENGE TIME		CAR	D	DEPTH	(m.)	1	*	5 .	4.	SIGM	A-1	SPECIFI	C VOLUM		*		UND OCITY	0 2 ml/	n	PO4=P #9 = 61/1	FOTAL - 9		ND3=N 99 - 01/1	\$104-\$4 yg - a1/1	pH	ic i
	HR 1/10	NO.	TYPE	١ ١					1						1 1	_				-				-	-	-	+1
			ST	0	000	0	1	841	361	5	260	6	001	9543	000	0		1 30		-			İ				- []
	121	. '	085	. '	000	0	' 1	841	361	46	260							1 30									
			ST	D	001	0	1	839	36 1	5	260	7		9530				191									
			ST	0	002	0	1	836	361		260		001	9513	003	9		192									
	121	l	OBS		002	4		835	361		260					0		193									
			ST	D	003			802	362		262		001	8188	005	8		185									
	121	l	D85	,	004	9		722	363		265							166									
			ST	D	005			716	363		265		001	5382	009	1		165									
	12:	l	D85	5	007			660	362		265							150									
			ST		007			655	362		265		001	4807	012	9		149 142									
	12	ι	DBS		009			620	362		266				01.			142									
			ST		010			613	361		266			4316													
			5 7		012			569	361		267		001	3866	020	11		130 126									
	12	l	085		014			548	361		267							127									
			ST		015			548	361		267		001	3630	023	15		134									
	12	1	D85		1019			546	361		267		001	2022	030			133									
			\$ T		020			539	361		267			3523				125									
			5.1		025			493	360		268		001	3344	. 05	U		118									
	12	1	D89		028			455	359		268		001	2.061	043			115									
			ST		030			441	359		268		001	3051	. 04.	, 0		093									
	12	1	089		1038			3 38	357		269		001	12384	056	. 2		089									
			ST		040			316	357		269		001	1230-	, 050	, ,		055									
	12	1	085		047			185	355		270		0.01	1 02 5	5 068	0.8		036									
			51		050			125	354 352		272		001	1022	, 500	, •		984									
	12	1	085		1057			912	352		272		0.00	09213	078	3.2		973									
			ST		060			773	351		274			07623				936									
			SI		076			1696	351		275		551		. 500			916									
	12	1	D85		080			1657	350		275		001	06498	3 09	36		907									
			51		090			1563	350		276			0576				885									
			S1 D85		1095			1518	350		276		0.01	.,,,,,	,			876									
	12	1		5 T D	1095			508	350		276		0.0	05383	3 10	5.3		879									
			51		110			3484	349		27			05230				885									
				סז	120			3460	349		27			05 07 (892									
				T D	130			3436	349		27			0489				899									
				10	140			0412	349		27			04731				906									
	1.2		D8:		T142			0406	349		27		30	, , , .		-		907									
	12	1	DO:	3	1142		,	J-7 JO	J 7																		

FERENCE SHIP			- 2	MARSDEN	STATION	TIME	ORICIA	ATD#'S	_	MAX	_	_	-				
ID CODE	LATITL		ONGITUDE 3	SOUARE	IGM	t) YE.		STATION	DEPTH	DEPTH		WAVE SERVATION	WEA				NDDC
11339 OG	//02	1/10	1/10	10" 1"	MO DAY			NUMBER	DITOM	S'MPL		NGT PER		E CODE			STATION
11334 00 1	4403	NO	4056 W	149 40	07 25	118 19	68 021 01	2	4003	46	34	1	X1				
				_	ATER	WIND	ARD. AIR TE	3 1M	NO.	-	Ь.	(-))	" "	1 2/2	1		001
				COP	TRANS DI	SPEED	METER DAY	WET COL	085. 1	312 /#12#O	CIAL ATIONS						
				-	00	PORCE	(mba) BULB	BULS	DEPTHS		~ 110113						
MESSENGI					- 00	300	261 189	161 7	21								
TIME	ND.	CARD TYPE	DEFTH (m)	1 10	5 %.	SIGMA-	, SPECIFIC VOLU	MI SA D	50 L	IND		T	T	T		T	_
H# 1/10	-		-				ANOMALT-XI	0' DIN. A	VELO	CITY	02 ml/	PO4-P	101AL-F		ND3-N		
1,,,	,	STO	0000	1546	3543	2622	001807	5 0000	150	194		-	-	-	24 - 001	- FR - U.	-
119	3	085	0000	1546	35431	2622	1	1	150			1	1	١		1	
		210	0010	1525	3558	2638	001657	0017									
118	a .	085	0020 0025	1510	3570	2651	U015409	0033	150	89							
	,	STD	0030	1505	35745				150								
		STO	0050	1505 1504	35 77 3589	2657	001481										
118	3	085	0051	1504	35893	2667	0013987	7 0077									
		STD	0075	1525	3602	266 7 26 7 2	00136		150								
118		OBS	0076	1526	36024	2672	0013564	0112									
		STO	0100	1515	3603	2075	0013353	01/6	151								
118		088	0102	1514	36030		0013333	0145	151 151								
		STO	0125	1480	3598	2679	0013054	0178	151								
		\$10	0150	1450	3593	2682	0012867		150								
118		08\$	0152	1448	35928	2662		02.1	150								
		STO	0200	1416	3589	2686	0012604	0274	150								
118		OBS	0203	1414	35883	2686			150								
		STO	0250	1385	3586	2690	0012333	0337	150								
118		S F 0	0300	1343	3580	2694	0012064	0398	150								
110		STO	0305	1338	35795	2695			150								
119		085	0400 10408	1227	3558	2701	0011666	0516	1509	57							
		STD	0500	1213 0982	35558 3524	2702			1505	53							
116		085	0508	0966	35217	2 71 9 2 7 20	0009960	0625	149								
		STO	0600	0827	3508	2732	0000750		1497								
118		280	T0604	0821	35077	2732	0008798	0718	1493								
		STO	0700	3660	3501	2750	0006981	0797	1493								
		210	0800	0545	3497	2762	0005833	0861	1489								
118		085	0812	05 35	34969	2763	000000	0 90 1	1486								
		STO	0900	0506	3498	2767	0005367	0917	1466								
		STO	1000	0477	3498	2771	0005103	0970	1486								
118		085	T1006	0475	34981	2771		50	1486								
		STO	1100	0458	3498	2773	0004963	1 02 0	1487								
		STO	1200	0442	3498	2775	0004873	1069	1488								
		\$10	1300 1400	0428	3458	2776	0004797	1117	1489								
		210	1500	0415	3498	2777	000+729	1105	1490	7							
118		285	1523	0404	3497	2778	0004671	1212	1491	9							
	,	STO	1750	0391	34974 3497	2778	000.		1442								
		STO	2000	0377	3496	2779	0004767	1330	1495								
1 39	(08\$	2000	0377	34964	2780 2 7 80	0004829	1450	1499								
		STO	2500	0347	3496	2783	0004787	1.01	1499								
139	(280	2500	0347	34964	2783	0004787	1691	1506								
		STO	3000	0308	3493	2755	0004704	1910	1506								
139		280	3000	0308	34933	2785	000-104	1930	1513								
139	(280	T3517	0265	34930	2788			1513								
		STO	4000	0237	3493	27+1	0004192	2377	1520								
137		BS	T4029	0236	34925	2790		2311	1528								
139		18 S	4500	0228	34908	2790			15364								
139	C	185	14590	0229	34914	2790			15380								

_						. ·	MAR	SDEN	ATZ	TION TH	ΑE	YEAR		ORIGINA	108'S A110N		10 1	MAX. DEPTH		WAVE ERVATIO		THER CODE	CODES		57	ODC ATION JMBER
	NIP	LATITUD	Ł	LONG	TUDE	DEC		ARE					CEUISI NO.		UMBER	80	MOTTO	S'MPL'S		HGT PER	SEA	_	TYPE AM	-		013
CC	300	•	1/10	•	1/10	9	30°	1.		DAY HI		9.6	8 021			4	663	13	17	0 2		X1	6 7			1013
) r)G 4	427	N	040	50 W	0	149	140	07	26 1	40 1	. 70		1		+			1-	1 1						
	-							WA	TER	w	IND		ARO+	AIR TEM	_	/15.	NG.	SPE	CIAL ATIDNS							
								COLOR	TRAN	S DIR	5#110 OR			DPY DPY	WET C	ᅄ	DEPTHS	CBSERA	A IIIDI43							
								CODE	(A)	100	S14			183	161	\neg	14									
									1_	15	314		<u> </u>	-			, -1			T	. [NO2-N	NO3-N	SIDSI	
-							Г		1	s •/	1104	7- AA	SPECIF	NE YOLU		, D	VELO		02 ml/	, PO.		TOTAL -P	μφ • αl/1	29 - DI/I	µg + 01/1	pН
ME	ESSENGE TIME 0	NO.	CAR		DEPTN	(m)	1	1 70	1	3 '	1 3107		ANO	W ALT-110	x .	103		_			-+		-	-		_
	R 1/10						-	1593	21	559	26	24	00	17921	00	0 0	151				- 1					1
			ST		000			1543		55 71	20		1		,		151									
- 1	126	,	085		000			1566		566	26		00	16864			151									
			SI		00			1540		5 7 2	26		00	15936	6 00	34	150									
			ST		00.			1540		5715	26						150									
	125		0.85		00			1510		576	26		0.0	1500	1 00	49	150									
			\$1		00			1485		5800	26						150									
	126		089		00			1491		581		63	00	1429	7 00	79	150									
			51		00			1492		5837		65						092								
	126		DB:		0.0			1488		564		66	0.0	1409	1 01	14		093								
			S					1484		5853		68						093								
	126	•	08		00			1482		587		70	0.0	1378		49		095								
				10	01			1477		591		74	0.0	1348	5 01	83		098								
				10	01			1476		5920	26	75						099								
	126)	08		01	50		1461		593		579	0.0	01312	5 0	16		397								
				10	101			1441		5932		84						095								
	126	5	08			00		1383		582		587	00	01244		80		079								
				10		50		1310		568		592	0.0	01214	7 0	342		062								
				TD		59		1300		15664		692						059								
	12	5	DB			100		1282		566		695		01192	25 0	+02		060								
				TD	103			1261		1564	3 2	699					_	061								
	12	5	0.8			•00		1166		3548		704	. 0	01124	7 0	518		035								
				TO		30		110		3538	9 2	709					_	016								
	12	6	0.6	10		500		093		3516		721	. 0	00976	08 0	622		963								
		,				514		090		3512	5 2	723					_	+955								
	12	0	DE	10		500		081		3512		738	3 0	0082	09 0	712		933								
			0.8			683		071	_	3512	3 2	751						4912								
	12	6		510		700		069		3511		753		0067	-	78		4906								
				STD		800		057		3504	2	76	3 0	0057	74 C	85		4875								
				35		858		052		3500	1 2	76						4862								
	1.2	0		5 T O		900		051		3499	2	76		0053		90	-	4863								
				510		000		048		3498	2	77		0051		95		4867								
				STO		100		045		3496	2	77.		00049		00	-	4872								
				510		200		042		3495	2	77	4 C	00048	30 1	05		4876								
				8 S		283		039		3493	4 2	277	6				1	487	,							
	1.2																									

SHIP LATITUE	DE LDNG		MARSDEN SQUARE	STATION TIME	YEAR	ORIGINATOR*	N ec	EPTH DEPTH	0855	WAVE RVATIONS	THER CDDE	CLOUD CODES	1	57	ATION JMBER
CODE	1/18	7/10 23	10° 1° M	O DAY HELL	10	NO. NUMB	E.K	3 76 3		2 3	X6	6 8		(0014
DG 4355				7 27 11	8 1958	021 014	140	63 15	23	- 1 - 1	1	- 1-	1	- 1	
06 4355	14 0 - 12	,, ,, ,,	WATE	R WIN	D BARG	AIR TEMP		NO. SPEC	CIAL						
					PERO METE	R DRY WE	1 5008	DBS. DESERV	ATIONS						
			CODE	ini j	ORCE			4							
				29 \$	20 16	3 167 15	6 6	-					1		
				- 1		SPECIFIC VOLUME	₹ ∆ D	SOUND	D2 ml/l	PO4-P	101AL-P	ND3-N	NO3-N	\$1 04-S1	рН
MESSENGE CAST	CARD	DEPTH (m)	r 10	5 %.	SIGMA-T	ANOMALT-1197	1 10)	VELDCITY	07	yg = 61/1	yg + €1/1	µg - 01/1	μg - στ/l	20 - 0171	-
NR 1/10 NO.	TYPE				2.17	0018548	0000	15046							1
	STD	0000	1414	3499	2617 2617	0010340	0000	15046		1		•			
118	DBS '	0000	1414		2017	0016735	0018	15071							
	STO	0010	1470	2540	2651	0015345	0 03 4	15088							
	\$ T D	0020	1507	3570 35813	2657	00.22.2		15095							
118	OBS	0026	1521	35813	2658	0014770	0049	15095							
	STD	0030	1518		2662	0014451	0078	15094							
	STD	0050	1506	3583 35832	2602	001		15094							
118	085	0051	1505	3557	2668	0013947	0113	15106							
	STO	0075	1526	35584	2665	00.3		15107							
118	DBS	0077	1527	3606	2672	0013596	0148	15115							
	S T O	0100	1537	36064	2673			15115							
118	DBS	0101	1537	3605	2674	0013562	0182	15116							
	510	0125	1529	3604	2676	0013448	0216	15116							
	S T 0	0150	1516 1515	36040	2676			15116							
118	085	0152	1474	3596	2679	0013278	0282	15110							
	STD	0200	1474	35961	2679			15110							
118	DBS	0201	1364	3572	2684	0012930	0348	15080							
	510	0250	1279	35563	2689			15058							
118	OBS	0239	1278	3556	2689	0012533	0412	15057							
	210	0300	1179	35504	2704			15039							
118	062	10398	1175	3550	2704	0011268	0531	15038							
	SID	0400	1004	35272	2718			14990							
118	085	0494	0994	3526	2718	0010018	0637	14987							
	STO	0500	0840	35115	2732			14943							
113	DBS	0591 0600	0810	35.0	2734	0008526	0730								
	STO	0700	0629	3498	2752	0006766	0805								
	STD	0783	0527	3492€	2761			14449							
118	08S STD	0800	0523	3493	2761	0005839	0996								
		0900	0499	3498	2768	0005263	0 92 5								
	STO	T0974	0481	34997	2772			14863							
118	D8\$ S T D	1000	0475	3500	2772	0004 966	0976								
	STD	1100	0454		2774	0004860	1 02 5								
	STD	1200	0434		2775	0034762	1073								
	510	1300	0417		2777	0004677	1120								
	STD	1400	0400		2778	0004628	1167								
	085	11471	0390		2778			14908	1						
118	062	11-11	4 3 / 4												

CTRY ID. CODE	LATITUDE	LONGITUDE	\$01	PARE .	STATION	TIME	YEAR		STATION		DEPTH	MAX. DEFTH	O.	WAVE SERVATIONS	WE				NODC
	I/10	1/10	10°	1"	MO DAY	HR.1/10			NUMBER		BOTTOM	S'MPL"			1 200	Ne -		- 1	MOITATE
311339 DG 4	4402 N	04053 W	149	40	07 28	132	1968	021 31	5	_	4663	15	27	1 2	-	TIPLA			NUMBER
			,	WA	TER T	WIND	_		MP. °C		.005	1 1 7	21	1 12	X]	. 2 4	٠		0015
				COLOR		1810	MET		_	VIS.	NO. 085.	SPE	CIAL						
				CODE	TEAM C	R. DE	(mbi		WET BULB	000	DEPTHS:	OBSERV	2 MOIT ▲						
					1	3 SO4	30	8 189	144	7	14								
MESSENGR	CAST CAR				+ +	-	-	1		<u> </u>	<u> </u>								
TIME OF	NO. TYP		n) [°C	\$./.	SIGA	4A-T	SPECIFIC VOLU	ME S	Δ D	SOU	ND	O2 mi/I	PO4-7	TOTAL-	NO3-N	NO3-N		
HR 1/10								AROMALI-II		x 10 ³	VELO	CITY	O3 WIN	μg = α1/1	¥9 - 01/		199 - OL/I	SI O4-	pH pH
132	12			610	3484	256		002376	2 0	000	151	06		 	_	+	-	-	+-
132	' 08S 5 T		-	610	34841				'		151					1	1		
	ST			685	3526	257		002240	6 0	023	151								
132				760	3557	258		002190	3 00	345	151	63							
134	DBS	0025		798	35670						151								
132	51			722	3569	260		002017	8 00	066	151								
132	085 ST	0049		5 3 1	35747						151								
132	085	- 0000		5 30	3575	265		0015560	0 0	02	151								
132		0074		511	35 82 7	266	0				151								
132	12			512	35.83	266		0014671	01	40	151								
132	085	0099		524	35548	266	7				151								
	ST			524	3595	266	7	0014129	01	76	151								
132	ST			516	3598	267	1	0013776	0.2	11	151								
132	085	0148		808	36015	267	5				151								
132	ST			04	3601	267		0013419	02	45	151								
134	085	T0197		11	35825						150								
	5 T (05	3581	268	2	0012962	03	11	150	86							
132				311	3563	268		0012532	03	74	1500								
132	DB\$	0296		46	35526						1504	+6							
132				46	3552	269		0012179	04	36	1504	+6							
132	08\$	T0398		.72	35475						150	36							
132	\$10				3547	270		0011357	05	54	1503	35							
132	085	0492		80	35220	271					1498								
1 32	STO			58	3520	272		0009848	06	60	1497								
4 32	280	10590			35043	274					1490	06							
	STO				3504	274		0007661	07	47	1490								
1 32	STO		0.6		3501	2 75		0006392	08		1487								
1 32	D85	0789	05		34993	276					1485								
	ST0		05		3499	276		0005616	08	78	1485								
132			05		3500	2768		0005300	09		1486								
102	08\$ STO	T0994	04	-	35003	2772					1486								
	ST0		04		3500	2772		0005020	098	34	1486								
		1100	04		3500	2779		0004803	10	3 3	1487								
	STD	1200	04		3500	2777		0004633	108	30	1488	3							
	510	1300	04		3449	2778		0004558	112	26	1489								
132	\$10	1400	04		3497	2778		0004603	117		1490								
132	085	1485	0.3	92 :	34956	2778					1491								

D. CODE	LATITUDE 1/10	LONGITUDE	STAUDE	STATION	TEAR	CRUISE ST	TOR'S A TION	OEPTH TO	OEPIH OF	0	WAVE BSERVATION	s w	EA- CLOUE			NODC
39 DG	4402 N	0.051	10. 1.	MO DAY		NO. N	RSEMU	BOTTOM	S. WIL.	DIR	H GT PET					STATION
3 / 00	4402 N	04054 W	149 40	07 29	124 1968	021 016		4663	14	14		X		1	-	001
			WA	TER	WIND SAI	AIR TEM	, 5	NO.			7 1 1	1	- - -	1	- 1	001
			CODE	TEAMS DIR.	PORCE (m)	TER DRY	WET COD	0.00	SPEC ORSERV	NON S						
				12	520 29	5 178	156 7	14			1					
MESSENGE TIME o HR 1/10	CASI CAR	DEPTH (m)	1 7	s •/	SIGMA-T	SPECIFIC VOLUM	1 ₹ △ 0 DYN. M 1 10 ³	. SOU		Q2 m1/	PO 4~P	TOTAL:		NO3-N	\$104-\$1	
	ST	0 0000	17°2	3497	2528	0026970	0000				34 - 0.71	25.01	/1 ×9 - 01/1	ug - 01/1	VQ - 01/1	_ "
132	DBS	0000	1792	34565		0020770	0000	151			1		1			
	ST		1793	3498	2529	0026920	0 0 2 7	151								
	ST	0 0020	1793	3499	2530	0026876	0054									
132	088		1793	34993	2530	-020010	0034	151								
	ST	0 0030	1830	3558	2566	0023499	0079	151								
132	08\$	0044	1844	36226	2612		5019	151								
	ST	0 0050	1806	3624	2622	0018207	0121	151								
132	085	0066	1735	36267	2642	0010201	0121	151								
	ST	D 0075	1732	3630	2645	0016126	0164									
132	DBS	0089	1712	36306	2650	0010120	0104	151								
	ST		1663	3620	2654	0015360	0203	1519								
	S.T	0 0125	1566	3601	2662	0014674	0241	1512								
132	085	0133	1539	35970	2665		0241	1512								
	ST	0150	1495	3595	2673	0013665	0276	1510								
132	Des	0179	1427	35902	2684	0013003	02 10	1509								
	5.1		1386	3580	2685	0012643	0342	1508								
	S 1 I	0250	1302	3562	2689	0012428	0404	1505								
132	DRS	0270	1275	35574	2691	0012 420	0404	1505								
	STO	0300	1259	3557	2693	0012 092	0466	1505								
132	085	T0361	1104	35507	2701		0400	1503								
	S T (0400	1139	3544	2706	0011041	0581	1502								
132	085	0456	1002	35250	2716		0,01	1498								
	STI	0,00	0790	3493	2725	0009152	0682	1490								
132	085	T0554	0597	34654	2731		3002	1483								
	STO		05 ∈ 9	3473	2740	0007668	0766	1483								
1.0.0	STO		0520	3485	2755	0006272	0836	1483								
132	085	0747	0502	34896	2761			1483								
	STE		0493	3492		0005527	0895	1483								
	STO		0477	3496	2769	0005140	0949	1484								
132	085	F0953	0468	34980	2772		3,4,	1485								
	STO		0460	3498		0004 706	0999	1485								
	510		0444	3497		0004849	1048	1486								
	510		0428	3497		0004787	1096	1487								
	510		0412	3496		0004728	1143	1488								
	STO		0396	3495		0004657	1190	14899								
1.32	OBS	T1444	0389	34949	2778											

				STATION TIME		ORIGINATOR"	s D	EPTH DEPTH	OAS	WAVE ERVATIONS	WEA-	CLOUD		STA	ODC ATION
NCE SHIP LATEL	ns IONG		SQUARE !	IGMT	YEAR	CRUISE STATIC	IN BO	TO OF		HGT FEE ST	COST	17PE A M 1			MBE
ID. CODE	1/10		10" 1" M	O DAY HR.1/				72 16	34	1 2	X L	7 7		0	01
339 06 4400		40 W D 1	49 40 0	7 30 12	1968			_		1 1	1				
.339 00 1 .100			WATER		- 1000			OBSERV	CIAL						
			COLOR T	MANS DIR.	OF (mb		1 0000	PTHS	- 110117						
			C001	1	15 24		1 7	4							
				11-13						PO4=P	TOTAL-P	NO2-N	NO3-N	5104-51	9)
MESSENGE CASI			1 %	5 %.	SIGMA-T	SPECIFIC VOLUME	S A D	VELOCITY	02 ml/	1 pg = 81/1	pg - 01/1	μg - αt/l	yg = at/1	µg - 01/1	
TIME OF NO.	TYPE	OEPTH (m1	, ,	,	_		x 10 ³			+	+				
HR 1/10	510	0000	1869		2551	0024851	0000	15191 15191		1		1		'	
	085	0000	1869		2551		0024	15197							
124	SID	0010	1875		2565	0023499	0047	15202							
	510	0020	1882		2574	0022743	0041	15205							
124	085	0027	1886	3000	2576	0021298	0069	15188							
127	STO	0030	1826	3587	2589	0015799	0106	15107							
	STO	0050	1548	3577	2648	0015177	0	15102							
124	085	0052	1532	35769	2651 2665	0014195	0144	15105							
• -	SID	0075	1524	3593 35949	2667	00111		15106							
124	085	0078	1523	3603	2673	0013579	0179	15111							
	STD	0100	1526	36034	2673			15112							
124	085	0103	1526 15 11	3602	2675	0013418	0212	15110							
	510	0125	1496	3601	2676	0013249	0240	15110							
	510	0150	1492	36001	2678			15109							
124	OBS	0156 02 0 0	1470	3595	2679	0013289	0312	15109							
	510	0200	1464	35941	2679			15108							
124	08\$ S T D	0250	1357	3572	2685	0012789	0377	15078 15053							
	STO	0300	1264	3555	2691	0012335	0440	15050							
126	085	0307	1253	35537	2672		0559	15039							
124	510	0400	1180	3548	2702	0011508	0000	15036							
124	085	T0408	1168	35465	2703	00007/-5	0666	14976							
124	510	05 00	0965	3523	2721	0009745	0000	14972							
124	085	0507	0951	35216	2722	0008093	0755								
• • •	STO	0600	0777	3507	2738	000007.		14917							
124	085	10606	0767	3505 e 3502	2753	0006667	0829	14884							
	510	0700	0543 0546	3499	2763	0005699	0890								
	STO	0800	0546	3499	2764			14859							
124	085	0812	0502	3499	2766	0005278	0945								
	STD	0900 1000	0468	3498	2772	0004972	0997								
	STD	11022	0461	34981	2773			1480							
124	085 S T D	11022	0451	3498	2774	0004870									
	510	1200	0438	3497	2774	0004875									
	STO	1300	0425	3497	2776	0004802									
	510	1400	0411	3496	2776										
	510		0398	3496	2778		123	1492							
124	085	11562	0390	34954	2778			1472							

OG 4410 N	CARD 1176 STO 085 STO 085 STO 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085	1/10	QUARE	R WIN	8 1968	9018 WE 8010 167 16 SPECIFIC VOLUME ANOMALT—2102 0025794 0024036	N	53 15 O. SPECION OBSERVA	AL	PO4-P	1014L-P	7 8	NO3=N yq - at/l		018 ph
Metasanga C. Asa 1 1 1 1 1 1 1 1 1	CAND 1176 STO 085 STO 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD 085 STD	05 W 1.4	1708 1708 1708 1744 1764 1767 1757	7 31 12 R WIN ANNS DIR 5 34 5 5 4. 34 86 34 86 34 86 34 86 35 22 35 52 35 52	1968 1968	D21 018 AIR TEMP. T. ORY WE BULE BULE BULE SMICIFIC VOLUME ANDMALT—2102 0025794 0024036	7 5 1. \$\(\text{S} \) \(\text{COM} \)	O. SPECIONS ON SPECIAL ON SERVA	TIONS		TOTAL-P	NO2-N		5104-5	
128 128 128 128 128 128 128 128 128 128	CARD 1178 STO 085 STO STO 085 STO 085 STO 085 STO 085 STO 085 STO 085	0000 0000 0010 0020 0027 0030 0050 0053 0075	1708 1708 1708 1744 1767 1757 1710	MANS DIR. 5 34 S 5 4. 34861 3522 3552 3552	D SARO METER ON ONCE (MALE) 10 220 SIGMA-1 2541 2541 2560 2578	AIR TEMP. CO ORV WE' BULB BULB BULB BULB BULB BULB BULB BUL	7 5 1. \$\(\Delta \) \(\Delta	SOUND VELOCITY	TIONS						рн
128 128 128 128 128 128 128 128 128 128	510 085 510 510 085 510 510 085 510 085 510	0000 0000 0010 0020 0027 0030 0050 0053 0075	1708 1708 1708 1744 1767 1757 1710	34 S 5 4. 34 86 34861 3522 3552 35690	sigma-1 2541 2541 2560 2578	08Y WE BULE BULE 167 16 SPECIFIC VOLUME ANDMALT—E107 0025794 0024036	7 5 1	SOUND VELOCITY	TIONS						ρН
128 128 128 128 128 128 128 128 128 128	510 085 510 510 085 510 510 085 510 085 510	0000 0000 0010 0020 0027 0030 0050 0053 0075	1708 1708 1708 1744 1764 1767 1757 1710	34 S 5 '4. 3486 3486 34861 3522 3552 3552	SIGMA-1 2541 2541 2560 2578	80L8 80L 167 16 SPECIFIC VOLUME ANDMALT—210? 0025794 0024036	7 5 1	SOUND VELOCITY							ρН
128 128 128 128 128 128 128 128 128 128	510 085 510 510 085 510 510 085 510 085 510	0000 0000 0010 0020 0027 0030 0050 0053 0075	1708 1708 1708 1744 1764 1767 1757 1710	34 S 5 *4. 3486 34861 3522 3552 3552	SIGMA-1 2541 2541 2560 2578	SMCIFIC VOLUME ANDMALT=10? 0025794 0024036	\$ \(\Delta \) \(SOUND VELOCITY	O2 m1/1						ρН
128 128 128 128 128 128 128 128 128 128	510 085 510 510 085 510 510 085 510 085 510	0000 0000 0010 0020 0027 0030 0050 0053 0075	1708 1708 1744 1764 1767 1757 1710	3486 34861 3522 3552 35690	2541 2541 2540 2578	SPECIFIC VOLUME ANDMALT-#10? 0025794	0000	15136	Q ₂ =1/1						ρН
128 128 128 128 128 128 128 128 128 128	510 085 510 510 085 510 510 085 510 085 510	0000 0000 0010 0020 0027 0030 0050 0053 0075	1708 1708 1744 1764 1767 1757 1710	3486 34861 3522 3552 35690	2541 2541 2560 2578	0025794 0024036	0000	15136	D2 m1/1			ug - et/l	yg - q1/l	µg - 01/1	
128 128 128 128 128 128 128 128 128 128	510 085 510 510 085 510 510 085 510 085 510	0000 0000 0010 0020 0027 0030 0050 0053 0075	1708 1708 1744 1764 1767 1757 1710	34861 3522 3552 3552	2541 2560 2578	0025794	0000								_
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128 128 129 128 128 128 128 128 128	STD STD D8S STD D8S STD	0050 0053 00 7 5	1710	3574		0020622	0070	15166							
128 129 128 128 128 128 128 128	STD 085 STD 085 STD	0053 0075			2596		0108	15159							
128 129 128 128 128 128 128 128	085 STD 085 STD	0075	1706	3600	2627	0017716	0100	15158							
128 129 128 128 128 128 128 128	\$10 08\$ \$10			36034	2631	0016000	0150	15165							
128 128 128 128 128 128 128	08\$ \$ 1 0	0080	1708	3624	2646	0016000	0170	15166							
128 128 128 128 128 128 128			1708	36258	2648	0015348	0189	15153							
128 128 128 128 128 128		0100	1656	3618	2654	0013340		15150							
128 128 128 128 128 128	OBS	0105	1643	36156	2655	0014914	0227	15134							
128 128 128 128 128	STO	0125	1587	3604	2659	0014492	0264	15118							
128 128 128 128 128	210	0150	1527	35 93	2665	001-1-2		15114							
128 128 128 128	085	0159	1506	35899	2666 2676	0013578	0334	15098							
128 128 128 128	510	0200	1442	3583	2678	00133.5		15394							
128 128 128	085	10212	1422	358 1 1 3571	2683	0012962	0400	15079							
128 128 128	SID	0250	1362		2690	0012387	0454	15058							
128 128 128	510	0300	1278	3558 35547	2693	001230		15051							
128 128 128	085	0314	1254	3534	2704	0011228	0582	15013							
128 128 128	510	0400	1109	35282	2707			15000							
128	085	10416	0750	3479	2719	0009677	0636	14892							
128	STD	0500	0707	34738	2722			14875							
128	085	0518	0569	3473	2740	0007691	0773	14833							
128	510	0600	0548	34725	2742			14828							
	085	0617 0700	0537	3486	2754	0005417	0 84 4	14839							
	STD	0800	0518	3496	2764	0005553	0904	14849							
	510	0815	0515	34968	2765			14850							
120	085	3903	0487	3-97	2769	0005180	0957	14853							
1.50	ST0 ST0		0459	3498	£773	0004843	1008	14858							
	085	T1013	0456	34978	2773			14859							
128	210		0430	3497	2775	0004732	1056	14805							
	STO		0417	3457	2776	0004624	1102	14874							
			0402		2770	0004570	1148								
			0392	3496	2 7 7 8	0004576		14897							
	STO		0387		2778	000+635	1240	14916							
128		T1526	0386	34949	2778			14-10							

REFERENCE	SHIP	LATITUDE	1.	DNGITUDE	£ 5	MAR	SDEN	514	TIDN	TIME				DRIGIT	NA TO	*5	٠,	DEPTH	MAX		_	WAVE	_	Line	. T	01.01.			
ODE NO.	CDDE	1/10	1	1/10	N Del	10"	I 1º	MO	IGMI	HR,1/10	1	EAR	CRU		STA TI			TO	DEPT	- 1		ERVAT	ONS	THE	R .	CODES			NODC
311339	DG	4358 N	04	4100 W		149				116		968			_		+-	063	S'MPL			NGT H			-	TYPE A WI			NUMBE
							WA	TER	-	WIND	Ľ,	_	٠,	AIR TE			7,	003	14	Τ,	14	0 2		X1	1	0 2	ļ		001
							COLOR	TRAN	-	SPEE	ó	MARC		DRY	WE			NO, OBS.	SPI	CIAL								,	
							CODE	(m)	UIK	PORC	3	(mhe		BULB	BUI	8 60	D P	EPTHS	DESER	V A TIC	SHC								
									03	502		179	9	178	13	9 7	1	14	_	_	-								
	MESSENGE	CAST CA	*D		_			1		1	_	_			-	٠.	٠,	-		-	_	_	_		_				
	HR 1/10	NO. TY	PE	DEPTH (m	1)	١ '	,c	5	*/	210	MA	-1	SPECE	FIC VOLU	W.E.	ξΔ DYN.	M	VELD		02	mI/I	PO.		OTAL-		02-N	ND3-N	5104-	S.
		S	TO	0000		1	899	35	0.0	25	7	-		007.	_ +	x 10						יי פע	n1/1	¥8 - e1/	1 "	9 - dVI	ya - at/l	PG - 41	/T PH
	116			0000			859		895	25			00.	2276	9	000	0	152							Т			_	+
		5	TΟ	0010			896	35		25			00	2206	,	000		152							•	'			,
		S	ΤO	0020			877	36		25				22 04 ; 2089.		002		152											
	116	08	S	0023			368		112	25			00.	2009		0044	+	152											
		5	ΤD	0030			326	36		26			001	1897		٠	,	152											
	116	083	5	0048			736		298	26			00.	1091	2	006		151											
		5	10	0050			728	36.		26			001	16021		2021		151											
	116	089	5	0072			556		190	26			501			3099		151											
		5 1	ΤD	0075			50	361		26			001	15131		0138		151											
	116	085	S	0097			12		125	26			001	10131	, ,	1130		151											
		51	ם	0100		16	09	361		26			001	4737	, ,	175		151											
		51		0125		15	88	361		26				4354		211		151											
	116	085		0144			72	361		26			00,	. 4334	,	/211		151											
		51		0150		15	68	361		26			nnı	4141	,	241		151											
	116	085	,	0192		15	30	360		26				4141		241		$\frac{1513}{1512}$											
		5.1	0	0200		15	18	360		26			001	3653		317		1512											
		ST		0250		14	46	358	9	26				3372		1384		1510											
	116	OBS		0288		13	93	357	97	26					•	304		1509											
		51		0300		13	81	357	8	268			001	2978		450		1509											
	116	280		0383		12	70	356	31	260				- / • 0		720		1506											
		S T		0400		12	37	355	8	269			001	1858		574		1506											
	116	085		0478		10	81	353	67	271					•	,,,		1501											
		5.1		0500		10		353	1	271			001	0310	0	685		1500											
	116	088		T0572		08	81	351	42	272	8				•	002		1495											
		5 T		0600		08	16	351	0	273	5	(000	8479	0	779		1493											
		5.1		0700		06		349	7	275	1	(000	6840		856		1487											
	116	085		0762		05		349		275								1485											
		57		0800		05		349	3	276	1	(000	5918	0	919		1485											
	114	51		0900		04		349	3	276	6			5477		976	_	1485											
	116	085		10956		04		349	33	276					•			485											
		ST		1000		04		349		276	9	(000	5211	1	030		485											
		ST		1100		044		349		277	1	(000	5096		081		486											
		ST		1200		04		345		277	3	(000	4976		132		488											
		ST		1300		04		349		277	5	C	000	4852		181		439											
	114	172		1400		041		349		277		0	0004	+722		229		490											
	116	0.85		T1440		039	7	349	5 7	277	8			_	•			490											

EFERENCE RY ID.	SHIP	LATITUDE	LONGITUDE		RSDEN	STATION	TIME			RIGINA	TD:R'S	DÉ	PTH	MAX		WAVE		WEA	Te.	OUD			
DE NO.	CODE	1/10	1/10	8 2 10*			HR.1/10	YEAR	CRUISE ND.		ATION	7 1	0	DEPTI	- 06	SERVATIO	NS	THER	C	DES	1	1	NODC
11339	DG	4400 N	04101 W	14	-	08 02	-	968		020	J M BER	-		S'MPL		HGT PE	SEA	COD	TYPE	AMI			NUMBER
				1	WA			700				45	72	14	00	11	0	X1	0	4			0020
					_		WIND	BAR	· -	R TEM	v	s No			CIAL	ĺ .			,		1	- 1	
					COLOR	TRANS DI	E OR FORCE	(mba			WET CO	DEP	IS.		VATIONS								
						12		25			167 7	14	_										
	MESSENGE	CAST CAR			-	-		1		_	1011	12.											
	TIME	T NO. TYP		0 1	T TC	5 %.	SIGN	A-T	SPECIFIC V	DLUM	DYN DYN	D.	SDUN	ND		PO 4-	. 10	TAL-F	NO2		410 41		T-
	HR 1/10		-	_				_	ANOMAL	V-110'	X 10	2 1	VELO (CITY	0 2 ml/l	P0 - 01		9 - 01/1	vg -		NO3-N P9 - 01/I	SI O4S pg - at/	p M
	129	51			920	3563	254		0025	240	000	0 1	520	07		+	+		-	+		_	+
	147	085			920	3562	254	7					520			1				- (1
		ST	_ 0010		917	3567	255	1	00241	868	0.02		520										
	129		- 0020		913	3572	255	6	00244	458	0.05		520										
	129				912	35747							521										
	129	ST 085			877	3581	257		00229	95 7	007		520										
	127	51			775	35941							517										
	129		- 9050		770	3594	260		00195	17	0116	1	517	76									
	127	51			665	35996						1	514	.9									
	129		- 00.5		658	3600	263		00166	57	0161	1	514	. 7									
	12,	51	0098	_	590	35987	265					1	513	30									
		ST			547	3509	265		00152	35	0201	1	513	30									
	129	085			549	3556	266		00146	99	0238	1	512	1									
	127	\$ T	0144		519	35934	266					1	511	5									
	129	085	0150 T0192	_	5.09	3592	266		00141	81	0274	1	511	3									
		51			436	35828	267					1	509	15									
		511			418	3580	267		00133		03+3	1.	509	0									
	129	065	0280		323 274	35€4	268		00126	95	0408	1 !	506	5									
		510				35574	269					1	505	5									
	129	085	10367		272	3557	269		00123	44	0471	1.5	505	6									
		STO			206 135	35514	2091					1:	334	3									
	129	085	0458		015	3543	270		00110	41	0588	1 !	502	3									
		510			925	35293	271					14	98	8									
	129	085	0543		925 83 7	3520	272!		00092	99	0689	14	96	1									
		Sro			779	35119	2733						73										
		STO				3511	2741		00078		0775		92.										
	129	085	0728			3509 35082	2754		00006	07	0847		80										
	_	510				3503	2758						896										
		510				3497	2763		00057		0909		972										
	129	OBS	T0914			3491	2759		00052	20	0464		854										
		STO				34964	2769						852										
		STO				3496 3496	2771		000508		1016		860										
		570				3496	2772		100498		1000		870										
		STO				3495	2774		000489		1115		880										
	129	085	11396			3499 34949	2776		200476	19	1164		889										
				0.5		74747	2777					14	898	3									

SHIP ,	ATITUOE LOP	igitude \$2	MARSOEN	STATION TIM	E YEAR	CRUISE STATE	ON	TO OF	OBSE	NAVE RVATIONS	THER	CODES		514	DOC ATION I MBEP
CODE		· 1/10 Z	10" 1"	MO DAY HE		NO. NUM		7	-	1 2	X 5	x 9		0	021
DC /		031 W	149 40	08 03 1	1968	D21 021	40	563 15	26	1 1	1 ^ -	1 , 1 ,	I	- 1	
DG 4	404 14 104	031 "	- 1	TER WI	NO BAR	AIR TEMP		NO. SPE	CIAL						
				R TRANS OIR	SPEED MET	ER ORY W	ET CODE	ORS DESERV	ATIONS						
			COO	(m)	FDECE UMB										
				27	512 23	4 189 1	89 6	14		,		1			
				1		SPECIFIC VOLUME	S A D	SOUND	0 2 ml/l	PO P	TOTAL-P		NO3-N	SI O4-SI PB - 01/I	pH
MESSENGE OF	NO. TYPE	DEPTH (m)	7 7	s */	SIG MA-T	ANOMALT-1107	x 10 ³	AFFOCILA		yg - et/1	µg • €1/)	ug - 01/1	yg - 01/1	pg - divi	
HR 1/10	NO. TIPE		-	77.77	2506	0029120	0000	15120						}	
	STO	0000	1693	3436	2506	0027120	0000	15126		,					
1 30	DBS	0000	1633	34320	2524	0027433	0 02 8	15153							
	510	0010	1762	3519	2544	0025541	0055	15170							
	SID	0020	1798 1804	35351	2555			15174							
130	DBS	0025	1785		2570	0023114	0079	15172							
	510	0030	1707		2620	0018462	0121	15156							
	012	0050	1707		2620			15156							
130	065	0074	1602		2653			15130							
1 30	DBS ST0	0075	1601		2653	0015346	0163	15130							
	0.85	0099	1570		2663			15125							
1 30	510	0100	1570		2663	0014500	0200	15125							
	STO	0125	1558		2665	0014384	0236	15125							
1 30	085	0148	1529	36018	2671			15120							
130	210	0150	152	3601	2672	0013824	0272	15118							
1 30	088	10197	141		2679		0339	15087							
1 20	STD	0200	140		2680	0013169	0404	15080							
	STD	0250	136		2685	0012763	0404	15069							
1.30	085	0293	131		2691	0012258	0466	15068							
	SID	0300	130		2692	0012236	0400	15030							
130	DBS	10386	115		2705	0010919	0582	15010							
	STO	0400	110		2707 2720	0010717	0,02	14928							
1 30		0482	085		2724	0009374	0684	14926							
	5 T O		083		2739	000/51		14913							
1 30		10577	076		2743	0007573	0769	14898							
	510		072 056		2757	0006239	0838	14850							
	STO		049		2762			14833							
1 30		0770	049		2764	0005527	0896								
	STO		049		2769	0005194	0950								
	STO	10964	048					14862							
130) 08\$ \$10		047		2772	0005013									
	STO		046	-	2773	0005016									
	STO		045	-	2774	0004983									
	STI		043		2775	0004899									
	511		041		2777	0004764	1199								
1.30		T1458	039		2778			14909	,						
130	, ,,,,,														

SHIP	LATITUE	DE	LONG	SITUOE BOOK	sau	SOEN	1G	MTI M	YE	AF C	ORIG CRUISE NO	STATI	οн .	DEPTH TO IDTTOM	DEPTH OF S'MPL'S	OB OR	WAV SERVAT	10 NS	THER	CLOUD CODES			NUMBER
C001	•	1/10		1710	10	+		AY HR.		. 0	_	22	_	663	13	15	2 2	2	X 4	X 9	1	1	0022
DG	4406	N	040	52 W	149	40	08 0	4 13		00	1 .						1''						
						WA.	ER	WIE		BARO	-	TEMP	VIS	NO. 085.	SPEI DBSERV	LAL							
						COLOR	TRANS.	OIR. 1	0.1	METER			ET CODE	DEPTHS	DESTRA	× 110/13	1						
						COOL	-		51.7	190	_	121	06 5	14			1						
								24	31 1	- 70				-			1				NO N	SI 04-	e.
	T	CA	T			T *C	١.	٠ ا	SIGMA		SPECIFIC VO	LUME	₹ △ 0 0 YN. M x 103		OCITY	02 01		- 01/I	TDTAL-P	NO2-N	NO3-N yg - a1/l		/I PH
MESSENGT TIME	P ND.	TY		DEPTH IMI	1		,		JOHN	-	ANOMALT	-114	x 10 ³	-		_		-		-	-	+	+-
HR 1/10	-	-	T.D.	0000	+-,	1965	361	7	2570	,	00224	08	0000		225					1	1	1	5
	.1	3 08	וַ ס	0000		965	361		2576						225								
130	,		T D	0010		964	361		257	7	00224		0022		227								
			TD	0020		1962	361	. 7	257	7	00224	,42	00+5		228								
1.30		08		3022		1962	361	65	257	7					226								
1 3	,		TO	0030		1952	362	23	258		0021	154	0067		228								
1.30	n	0.6		0043		1936		257	259				0100		226								
1 30	•		TD	0050		1838	36		260		00196	522	0108		198								
13	0	0.8		0065		1719	360	180	2 t 3.				0154		177								
	•		TO	0075		1749	36.		263		0016	156	0154		195								
1.3	0	DE	3.5	0086		1764		361	264		0015	0.7.7	0195		5172								
• • •		5	0.1	0100		1717	36		264		0015		0234		5154								
		5	10	01 25		1645	36		265		0015	100	0237		5150								
1.3	0	0.6	35	0130		1632		160	265		0014	447	0271		5141								
		9	510	0150		1592	36		266		0014	301	02.1		5131								
1.3	10		8.5	0171		1551		038	267		0013	R38	0343		5117								
			5 T O	0200		1496		95 73	268		0013		0410		5094								
			STD	0250		1404		785	266		0015				5093								
1.3	30		BS	0251		1402	-	61	268		0012	716	0475	5 1	5067								
			s T O	0300		1263		542	269						5057								
1 3	30		65	10328		1202		51	270		0011	702	059		5047								
			STD	0400 0408		1188		491	270						5044								
13			85	0486		0962		219	271					_	4930								
1:	30		85 5 T D	0500		0959		21	272		0009	791	070		4974								
			STD	0600		0808		15	27	+0	0007	987	079		4933								
	2.3		85	0651		0736		118	274	+8				-	4914								
1.	30		SID	0700		0672		506	27	53	0000			-	4876								
			STD	0800		0556		97	27		0006	5006	093		4865								
1	30		185	T0841		051		942					0 = 4		4855								
	50		STO	0900		0508	3 3	495	27			5630		-	4861								
			STO			048		496	27			5441		-	4871								
			STD)	047		497	27			5239			. 43 80 .4889								
			STO	1200)	045		497	27			5035			4898								
			STO			043		498	27		000	4824	117		4901								
1	30	ŧ	285	T1329	9	042	8 3	4586	27	11													

Table XIII.—Observed and interpolated oceanographic data for stations taken by USCGC COOK INLET at Ocean Station DELTA, 5 August-25 August 1968, prepared from NODC listing No. 31-1316 CO.

The column Column	ERENCE SHIP	LATITU	DE LO	HGITUDE 1008	MARSDEN SOUARE	STATION TI		TEAR	O RIGII	ATOR'S STATION		to to	MAX. DEFTH	005	WAYE RVATIONS	WEA-	CLOUG			NOOC STATION	7
The content of the			1/16		+				HO.	HUMBER		MOTTO	S'MPL'S	_	_	CODE	ITPE AM	ž.		NUMBER	1
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176	H# 1/10	HO.	TYPE	OEPTH (m)	1 5	\$ 1/4.	SIGM	A-1	ANOMALT-1	DYN X	103			0 g m1/1		## - ##/I					
17									002-4-	00	10										
175	1 /	6							JU2:75	5 00	23										
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150 0.072			STO	005-)	1776	3510	2 = 1	7				1 > 1	79								
176	17	5							301585	. 01	5.5										
176	17	5	2.90	0475	1804	35+33	253	3				151	90								
STD 0125 101-3	17	6							001518) 01	75										
170			STO	0125	165 -	3523	600	5				151	61								
170	17	6							001474	~ 42	7.3										
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170	1 7	ס							001365	- 04	1 4										
175			STO	0300	1435	3584	250	1				151	13								
176	1.7	0							001254	4 00	11										
176	17	5	085	T0410	1273	:5002	209	3				150	74								
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STO 0700 0714 3502 2744 0007657 0-17 1-714	1.7	6				3515	272	7	000936	5 0 5	31	1 ↔ 9	71								
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176	1.7								300050	3 09	33										
176	176	5							000596	5 10	51										
STO 1133 3-64 3-59 277 3-39-3 517 149-9 510 149-9 510 1300 0-67 3-49 277 3-09-30 510 149-9 510 1300 0-62 3-49 2777 3-09-30 510 149-9 510 1500 0-13 3-77 2777 3-09-37 130 1492-9 177 008 5115 0-04 3-473 2777 3-	1.7								0005⊶8	0 11	9 (
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3 15 15 15 15 15 15 15		5	012 012 012 012	1300 1400 1500	0453 0435 0415 0416	3449 3498 3457 34573	277 277 277 277	5 7	000505 000495 000487	2 12 3 13 5 13	15	149 149	15 25 27								٦
	ERENCE SHIP		STD STD STD STD OR S	1300 1400 1500 T1516	0453 0435 0410 0410 MARSDEN SOUARE	3499 3499 3457 34573	277 277 277 277	5 7 7	000505 000495 000497	2 12 3 13 5 13	15	149 149 149	15 25 27 MAK GEPTH OF	ORSE	RV A TIOHS	THER	CODES	7		NODC STATION NUMBER]
	ID. CODE	LATITU	STD STD STD STD O8 S	1300 1400 1500 T1515	0453 0435 0415 0416 MARSDEN SOUARE 10° 11 149 40	34 4 7 3 4 9 A 3 4 4 7 7 3 4 4 7 7 3 4 5 7 3 4	277 277 277 277 277	5 7 7	0003505 000495 000497 000497	2 12 3 13 5 13 STATION NUMBER	05	149 149 149	15 25 27 MAK GEPTH OF	ORSE	RVATIONS	CODE	TIPI AM	7		NUMBER	
	ID. CODE	LATITU	STD STD STD STD O8 S	1300 1400 1500 T1515	0453 0435 0415 0416 MARSDEN SOUARE 10' 1' 149 40	34 5 7 34 9 A 34 5 7 34 5 7 3 5TATION TI IGMTI MO DAY MI D D D 1	277 277 277 277 277	5 7 7 7 TEAR	0003505 000495 000497 000497	2 12 3 13 5 13 STATION NUMBER	15	149 149 149 100 0110M	MAL OEPTH OF SMPL'S	0 8 SE	RVATIONS	CODE	TIPI AM	7		NUMBER	
ST	ID. CODE	LATITU	STD STD STD STD O8 S	1300 1400 1500 T1515	0453 0435 0415 0416 MARSDEN SOUARE 10' 1' 149 40	3477 3477 3477 34773 STATION TI MO OAY IN 07 DO 1	277 277 277 277 277	TEAR TEAR TEAR TEAR TEAR TEAR TEAR TEAR	0003505 000495 000487 000487	2 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	15 5 10 10	149 149 149 160 DEPTH TO DITOM	MAL OEPTH OF SMPL'S	0 8 SE	RVATIONS	CODE	TIPI AM	7		NUMBER	
137	ID. SHIP CODE	_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	010 010 010 010 010 010 010 010 010 010	1300 1400 1500 11516 NGRUGE 17/10	0.453 0.435 0.415 0.415 0.416 MARSDEN SOUARE 10° 1' 1.49 4.0 	34 77 34 97 34 77 34 77 34 573 STATION TI IGMT! MO OAY NI O DO 1 IEB W TEANT OR.	277 277 277 277 277 277 277 277 277 277	TEAR TEAR TOTAL TEAR TEAR TEAR TEAR TEAR TEAR TEAR TEAR	0003505 000495 000497 000497	2 12 3 13 5 13 5 13 5 13	15 55 10 10 10 10 10 10 10 10 10 10 10 10 10	149 149 149 149 160 PITOM NO OBS. EPTHS C	MAK. OEPTH OF STMPL'S	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
STO 0010 144 255 254 0025237 0020 15145 STO 0020 1274 5573 1559 00252455 0030 15145 STO 0030 1469 35470 2573 0021055 00173 51145 STO 0030 1717 3512 2535 0021055 00173 51145 STO 0075 1645 3511 1640 0152 15157 STO 0075 1645 3511 1640 0152 15157 STO 0075 1645 3523 2555 15155 STO 0101 1600 0512 1560 00150 0152 15157 STO 0101 1600 0512 1560 0014750 0152 15157 STO 0101 1600 0512 1560 0014750 00150 15137 STO 0101 1577 45067 1570 0014750 0021 15127 STO 0100 1500 1570 1570 1570 0014253 0026 15127 STO 0100 1500 1570 1570 1570 0014253 0026 15127 STO 00300 1565 25007 1670 00150 00150 15127 STO 00300 1565 2577 1641 0014252 0000 15045 STO 00300 1565 2577 1641 0014222 0000 15045 STO 00300 1565 2577 1641 0014222 0000 15045 STO 00300 1565 2577 1641 0014222 0000 15045 STO 00300 1565 2577 1641 0014222 0000 15045 STO 00300 1565 2577 1641 0014222 0000 15045 STO 00300 1565 2577 1641 0014222 0000 15045 STO 00300 1565 2577 1641 0014222 0000 15045 STO 00300 1565 2577 1641 0014222 0000 15045 STO 00300 0047 2517 271 271 271 271 STO 00400 0077 1440 271 271 271 271 STO 00400 0077 1440 271 271 271 271 271 STO 00400 0077 1440 272 271 271 271 271 STO 00400 0077 1440 277 271 271 271 271 271 271 STO 00400 0077 1440 277 277 271 2	EBENCE SHIP IO. CODE	LATITU	STD STD STD ORS OE LO 1/16 N O-4	1300 1400 1500 T1516 NGRUGE 100 1000 1000 1000 1000 1000 1000 1000	0.453 0.435 0.415 0.415 0.416 MARSDEN SQUARE 10° 17 1.49 4.0 	3 4 7 7 3 4 5 7 3 4 5 7 3 4 5 7 3 4 5 7 3	277 277 277 277 277 33 1 IND SPEID OICE SIGM	TEAR TEAR TEAR TEAR TEAR TO THE TEAR T	OU 35 U 5 O 3 O 3 O 3 O 3 O 3 O 3 O 3 O 3 O 3 O	2 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	VIS. 00000	149 149 149 149 160 1700M 1700M 170 170 170 170 170 170 170 170 170 170	MAK. OEPTH OF SIMPLS SPECIO	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
133	100 Ship NO CODE 1310 C 0 MISSING MISSIN	LATITU	STD STD STD ORS OE LO 1//16 N O-4	1300 1400 1500 11516 Horizon 188 1710 1710 1710 1710 1710 1710 1710 1	0.453 0.435 0.415 0.415 0.415 0.415 107 11 1.49 4.0 0.008 0.008 0.008 0.008	3 + 77 2 + 97 3 + 57 3	277 277 277 277 277 277 277 277 277 277	TEAR TEAR TEAR TEAR TEAR TEAR TEAR TEAR	OUTSUS OD 1490 OUTSUS OD 1490 OUTSUS OD 1490 OUTSUS	2 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	15 55 10 10 10 10 10 10 10 10 10 10 10 10 10	149 149 149 160 0000 000 000 000 000 149 149 149 149 151	MAX. DEFTH OF SPECIAL	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
STO 3040 1711 3112 2532 2515+3 0111 15102	100 Ship NO CODE 1310 C 0 MISSING MISSIN	LATITU	STD STD STD ORS	1300 14500 11516 1	0 + 2 3	3 4 77 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 4 9 7 3 5 7 3 6 9 7 3 6 9 7 3 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	277 277 277 277 277 277 35 4 500 500 500 500 500 500 500 500 500 50	SAPO METE (mbe	00/35/35 00/34/95 00/	2 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	149 149 149 169 160 1710M 100 1710M 100 1710M 170M 17	MAK DEPTH OF SMPLS	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
133	MISHING 1911 1911 1911 1911 1911 1911 1911 19	LATITU	STD STD STD ORS STD ORS LO 1/16 N O-4	1300 1400 1500 11516 Heritoria 150 1716	0+23 0+29 0419 0410 0410 0410 0410 0410 0410 041	34 - 7 - 34 - 7 - 3 - 7 - 3 - 7 - 3 - 7 - 7 - 3 - 7 - 7	277 277 277 277 277 277 277 32 1 32 1 32 1 32 1 32 1 32 1 32 1 32 1	5 7 7 7 8 AACO (mbe 111)	0003505 0003495 000497 000497 00069	2 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	15 55 10 10 10 10 10 10 10 10 10 10 10 10 10	149 149 149 149 169 169 169 169 169 169 169 169 169 16	MAR. 25 27 MAR. OEPTH OF SMPLS SPECIOESERVA TOTAL T	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
132	MISHING 1911 1911 1911 1911 1911 1911 1911 19	LATITU	CAED TIME CAED TIME CAED TIME STO STO STO STO STO STO STO STO STO ST	1300 1400 1500 11516 Notice	0+23 0+25 0415 0416 MARSOIN SOUARE 107 119 149 40 T T	34-77 34-77 34-77 34-77 34-77 34-77 34-77 34-77 34-77 34-77 34-77 35-77 35-77 35-77	277 277 277 277 277 277 33 1 33 1 30 1 30 1 30 1 30 1 30 1 30 1	SAPCE METE (mas)	00/35/35 00/3495 00/3495 00/3497 00/3495 00/34	Z 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	15 55 10 10 10 10 10 10 10 10 10 10 10 10 10	149 149 149 149 149 149 169 169 169 169 169 169 169 169 169 16	MAX. OEPTH OF SPECIAL	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
ST	10 SHIP SH	LATITU CAST	STO STO STO ORS OE 100 1/10 OF STO O	13-00 14-00 1500 11515 Highway 1500 1010 00214 (m) 00214 (m) 00214	0 + 5 3 0 + 3 5 0 + 1 5 0 4 1 5 0 4 1 5 0 4 1 5 0 4 1 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	34 - 7 - 34 - 7 - 34 - 7 - 34 - 7 - 34 - 7 - 34 - 7 - 34 - 7 - 3 - 2 - 2	277 277 277 277 277 277 277 277 277 277	STORY TARK	OUGSUS OD OHGH CRUISE NO. 1 200 ARR 11 001 101 101 101 101 101 101 101 10	2 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	77 77 70 71 71 71	149 149 149 149 169 169 169 169 169 169 169 169 169 16	MAL 027	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
ST	MISTINGE NATIONAL PROPERTY AND COOL PROPERTY AND COOL PROPERTY AND PRO	LATITU	STD STD STD ORS 17/10 N O-1 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD ORS 17/10 STD	1300 1400 1500 11515 Namuot 58 355 N	0+23 0+15 0+15 0+16 0+16 0+16 10* 17 1+9 40 1+9 40 1+5 1+5 1+5 1+7 1+7 1+7 1+7 1+7 1+7 1+7 1+7 1+7 1+7	34 57 34 57 3 4 57 3 4 57 3 4 57 3 4 57 3 5 5 5 5 7 3 5 5 7 5 5 7 5 5 5 7 5 5 5 7 5 5 5 5	2777 2777 2777 2777 2777 2777 332 L 300 38100 38	TYEAR FAICHMENT FAIC	OUGSUS OD OHGH CRUISE NO. 1 200 ARR 11 001 101 101 101 101 101 101 101 10	2 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	77 77 70 71 71 71	149 149 149 149 169 169 170 180 180 180 180 180 180 180 180 180 18	MAKE OFFICE OF STANDARD OF STA	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
143	10 Ship 10	LASTITU	CAED TIPE CAED TIPE CAED TIPE STO STO STO STO STO STO STO STO STO ST	13-00 14-00 1500 11515 HIGHWAN - 1515 HIGHWAN - 1515	0+23 0+25 0+15 0+16 0+16 0+16 0+16 1	34 57 34 573 34 573 34 573 374 573 374 573 375 6041 375 6	2777 2777 2777 2777 2777 2777 35 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 7 7 7 8 A C C C C C C C C C C C C C C C C C C	OUJSUS OU	2 12 3 13 13 13 13 13 13 13 13 13 13 13 13 1	1555 1005	149 149 149 149 149 160 100 100 100 100 100 100 100 100 100	15 25 27 38761 OFFIN OFF	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
ST	10 Ship 10	LASTITU	STD STD ORS OE 10 1/16 N O+ CAND THE STD ORS STD OF STD ORS STD ORS STD OR	1300 1400 1500 11516 Nation 58 355 N	0+23 0+23 0+15 0415 0416 MARSON SOUNT 109 11-9 40 155 14-155 14-155 1-45-17 16-17 1	34 4 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2777 2777 2777 2777 2777 2777 2777 277	SARCE (mass	ONIGH CRUISE NO. D22 OU D32 OU SMCGIIC VOL SMCGIIC VOL	2 12 3 13 3 13 3 13 3 13 3 13 13 13 13 13 13	77 7 2 5 5 0 7 7 3 1 1 1 5 2 2 5 5 0	149 149 149 149 160 170 170 170 170 170 170 170 170 170 17	15 25 27 MARI SMRISS SMRISS SPECIAL 35 37 37 37 37 37 37 37 37 37 37 37 37 37	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
133	10 SHIP 10	CASTI VI CASTI A CASTI	STD ORS STD OR	1300 1400 1500 11515 1000 11515 1000 1000	0+23 0+25 0415 0416 MARSON 109 11 149 40 11 149 40 11 155 145 175 165 175 165 175 165 175 165 175 165 175 165 175 165 175 165 175 165 175 165 175 175 175 175 175 175 175 175 175 17	34-77 34-77 34-77 34-77 34-77 34-77 34-77 34-77 35-77	2777 2777 2777 2777 2777 2777 2777 277	SACTOR METERS OF THE SACTOR OF	0.000 0.000	2 12 3 13 3 13 3 13 3 13 13 13 13 13 13 13 1	77	149 149 149 149 149 169 169 169 169 169 169 169 169 169 16	15 25 27 35 35 35 35 35 35 35 37 35 37 37 37 37 37 37 37 37 37 37 37 37 37	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
\$10 0000 1546 2077 2042 0450 1546 1546 1546 1546 1546 1546 1546 1546	10 SHIP 10	CASTI VI CASTI A CASTI	STD 08 S TO 08	1300 1400 1500 11515 1000 11515 1000 1000	0+23 0+25 0+15 0+16 0+16 0+16 10* 17 1+9 40 1-19 40 1-19 40 1-19 1-19 1-19 1-19 1-19 1-19 1-19 1-19	34 4 7 3 4 7 3 4 7 7 3	2777 2777 2777 2777 2777 2777 2777 3580 58100 7010101 7010101 7010	5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	OUJSUS 00 04 97 00 04	2 12 3 13 3 13 13 13 13 13 13 13 13 13 13 13	77 77 77 77 77 77 77 77 77 77 77 77 77	149 147 147 147 147 159 169 179 179 179 179 179 179 179 179 179 17	15 25 27 MAL MARIN OF THE OF T	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
132	10 Ship 10	CAST 9 NO 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	STD ORS STD ORS STD ORS STD ORS STD ORS STD ORS STD ORS STD	1300 1400 1500 11516 Nation 58 353 h 007H (m) 000 0010 0020 0010 0020 0025 0075 0075 0075 0011 0020 0020 0020 0020 0020 0020 002	0+23 0+23 0+15 0415 0416 MARSON SOUNT 10F 11 10F 12 10F 12 11 11 11 11 11 11 11 11 11 11 11 11 1	34 4 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2777 2777 2777 2777 2777 2777 2777 277	55.77.77 ******************************	OUJSUS 00 0495	2 12 3 13 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1555 1077 777 1087 1097 1	149 149 149 149 149 149 149 159 149 159 159 159 159 159 159 159 159 159 15	15 25 27 34 34 35 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
1-3	10 500 10 10 10 10 10 10	CAST 3	STD STD STD STD STD STD STD STD STD STD	1300 1400 1500 11516 NGRUOT 58 355 N 00FH 6- 0000 0010 0010 0010 0010 0010 0011 0	0+23 0+23 0+15 0415 0415 0416 MARSONN SOUNT 119 12 149 40 15 1455 1455 1455 1455 1455 1455 1455 1	34 4 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2777 2777 2777 2777 2777 2777 2777 339 L 100 100 100 100 100 100 100 100 100 10	SAICE METERS AND STATE OF STAT	OUCH 15 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 12 3 13 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	149 149 149 149 160 100 100 100 100 150 149 150 150 151 151 151 151 151 151 151 151	15 25 27 3HCCG GENH OF THE CONTROL O	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
137	10 500 10 10 10 10 10 10	CAST 3	STD OR S STD OR S STD OR S STD OR S STD OR S STD OR S STD	1300 1400 1500 11515 1500 11515 1015 1015	0+23 0+35 0+16 0+16 MARIDIN SOUANE 10° 11 14° 9 40 11 15° 10 11 15° 10 11 15° 10 15° 1	34 57 34 573 34 573 34 573 34 573 34 573 34 573 34 573 35 23 35 24 35 24 35 27 37 37 37 37 37 37 37 37 37 37 37 37 37	277 277 277 277 277 277 277 277 277 277	5 7 7 7 8ARC (miss) 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OUCLOSE TO COLUMN TO COLUM	2 12 3 13 3 13 14 16 17 14 16 17 17 17 17 17 17 17 17 17 17 17 17 17	77 77 77 77 77 77 77 77 77 77 77 77 77	1499 1499 1499 1499 1499 1499 1499 1499	15 25 27 38 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
STO USD	10 SHIP 10	CAS1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	STD ORS	1300 1400 1500 11515 1500 11515 1000 11515 1000 100	0 + 23	34 57 34 573 34 573 34 573 34 573 35 673 36 73	277 277 277 277 277 277 277 277 277 277	SAPER SAPER	OUJSUS OU	2 12 3 13 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	77 77 77 71 71 71 71 71 71 71 71 71 71 7	149 149 149 149 149 149 149 149 149 149	15 25 27 31 31 31 31 31 31 31 31 31 31 31 31 31	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
ST 0740	10 Ship 10	CAST 9 440 7	STD ORS ORS OT 100 CAND ORS OT 100 ORS OT 100 ORS OT 100 ORS OT 100 ORS OT 100 ORS ORS STD ORS	1300 1400 1500 11516 Highway 150 1500 11516 101516	0+23 0+25 0415 0416 MARDIN 10416 107 17 149 40 1545 1545 1575 1575 1577 1577 1577 1577	34 4 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 4 7 7 3 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1	277 277 277 277 277 277 277 277 277 277	SAPER SAPER	OUJSUS OU	2 12 3 13 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	77 77 77 71 71 71 71 71 71 71 71 71 71 7	1499 1149 1149 1149 1149 1149 1149 1149	15 25 27 MALL SMPLS SMPLS SPECA 59 59 59 59 59 59 59 59 59 59 59 59 59	ORSE OR II	RVATIONS HGT PRESE	IHEF CODE	CODES 1791 AM	NO3=N	\$104-5	0002	
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D.	COOE	LATITU	301	LC	NGITUDE 5	SO.	U A RE	STA1	GMTI		YEAR		ORIGINA			DEPTH	MAX		WAV	E	WEA	- CLOU	0		
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			_						3.1	505	1:	3 1	7.5	151	7	14			1						
- 1	MESSENGE TIME HR 1/10	CAST NO.	CAF		DEPTH (m)		t	5	٠4.	SIGM	A = T	SPECIFIC ANOM	VOLUM ALT-210		△ D N. M	SOL	IND OCITY	02 ml/	PO.		07AL-7	NO2=N	NO3~N		
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LAM WAY COUR	HODE
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The part Continue	0003 NO3-N 5104-51
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	SHIP	1		Le	MARSDEN	STATION T	TAKE		ORIGIN	279014	\neg	_	MAX			-				
IND.	COOF	LATITU	1	ronditings	SQUARE	IGMTI	1	EAR	CRUISE S	TATION		DEPTH TO	DEPT	31	WAVE SERVATIONS	WEA	- CLOUD		T	NODC
+	1 50		1/10		10 1	The Later of				UMBER	_	MOTTOM	S'MPL		HGT PER SE	1				STATION NUMBER
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	1 2 4	,	ORS	0150	1434	35917	2684					150								
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			STO	0250	1385	3584	2689	(0012480	038	4	150								
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	1 34		085	0301	1346	35764	2691					150								
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			STO	11002	0444	34978	2767					1487								
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	168		0 P S	T1738	0369	34954	2778					1493								
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			STD	2000	0377	3496	2780		004848	1+3		1495								
	163		ORS	T2249	0362		2701	U	004875	156		1499								
			STO	2500	0341		2742	0	0.04.44.	100		1502								
	168	(2 AC	2754	0321		2783	U	004640	1804		1506.								
			STO	3000	0301		2755	0	004073	2.1		1509								
	168	(3 B S	13260	0262		2735	0.	504013	20+2		1513.								
	168	(OR S	3769	0248		2737					1516								
			SID	4000	0239		2799	r.	20			1524								
	168	(DH S	4105	0236		279a	01	00+450	2449		1527° 152∀								
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SHIP	LATITUE	DE .	LON	SITUDE	DELFT		SDEN JARE		ATION IG M	T)		YE A R	CRUIS NO.	E		OR'S	N	DEFT TO BOTTO	!	DEPTH OF SIMPLE	1	BSER	A VE VA TION		THER CODE	co	DES AMT		1	HODE TATION TUMBE	N
ODE		1/10		11/10) Z	10°	ì'	MO	+	HR.1		_	+-	+		mac	<u>`</u>	454	-+	214112	23	+	1 4		15	6	7			001	ď
C 1	4405	N	040)45 H	0	14:	4)	0 -	21	17		٠,	055		Jlu			_			-	٦''	1.1	- 1							
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ESSENGE TIME	CAST HO.	C.A.		DEPTH	Sm I		r *c		\$ 1/2	-	SIGN	A-T	SPECH	FIC IM A	VOLUM LT-E10 ⁷	t	≨ ∆ D OYN. № x 10 ³	4.	SOU /ELO	CITY	0 7 ml	/I 	yg : 61/		9 - 01/1			υ ο · α1/Ι	9g x 01	-	Н
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1.7	7 7	0	H S	07	85		061		350			760					086	0		1335											
- '			SID		00		060		350			701			1663		093			453J											
			STD		00		055		350			767	U	U.	1553)	U 9 2			877											
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			STD		0.0		046		350			776			0463		10			4581											
			SID		200		043		34			777			0463		11			4888											
			SID		3 00		041		345			777			046d		11			4898											
			STO		• 00		039		340			775	0				- 1			, 90₺											
1	77	- 0	18.5	11	475		033	7	34.	· C 1	_								_												

SHIP	LATITU	DE L	ONGITUDE	Delifi	MARS SQU	ARE	(1	ON TIA		YEAR	CRUIS NO.		TION MBER	DEPT TO BOTTO	05	1 09	WAVE SERVATIONS HGT PER SE	THER CODE	CODES		5	NODC TATION TUMBER
CODE		1/10	17/1	0 3	10°	11		AY HR			NO.	1-		-	- 13 14-12	3 3	+	16	0 2			0011
co	4355	N C	41.Jb +	4	149	21	0	2 1	2 - 1	. 45 d	Lea			464	7	22	ادادا	1 10	101-	J	- 1	
00 1				' '	' I	W.A	TER	W	IN D	BARG	o- L	AIR TEM	V .	NO OBS		ECIAL						
						COLOR		DIR.	03312	METE		BULB	BULT CO	DEPT		2 NOIT AV	ļ					
						CODE	[m]	-	TOICE	tmb	-			14	-		1					
						ļ	ļ	17	515	15	0	175	145 7	114		_					_	T
					1		Τ.				SPECII	IC VOLUM	AYO 3		COUND	O2 ml	PO 4-P	TOTAL+P ug - et/l	NO7-N ug - al/l	NO3=N pg - al/I	5) O4=5 µg - a1/	
MESSENG TIME	or NO.	CARD	DEPTH	(m)	1	¢	,	٠/	SIGA	1-A	ANO	MALT-STO	x 10		ELOCITY		≥g + α1/1	Jg - 8771	DQ - 017	pg - an i	-	-
HR 1/10					+ -		350	2.3	23.		00	23430	000))	5124							
	ļ	STO				653	330		25:		100	2 3 4 3 0	1000		5124		1					
1.2	4	UAS	200			675 655	33		25		0.0	22429	002	2 3	5125							
		ST					35.		25			21414		4 1	5127							
		ST				650		35.7	25		5.0				5123							
12	3	ne s	00			545	35		25		(40)	20031	000		5039							
		ST				525	34		20			177-1			4475							
		ST				1 4		> + ()	2.5		3.0				4375							
1.2	9	085	00			194	24		25):1	1:62-	14		14472							
		ST				154		77 C	20		,,,				14472							
1.2	3	042					34		26		0.0	13467	7 01:	2	14+22							
		ST				017		653	25			•			4921							
1.2	? -)	NH S				01-	35			76	0.0	1364	0 021	6	14572							
		5.1		45		123		30		82		1277			15006							
		5.1		5 U		1510		277		42	0.0	12.			15005							
1.3	? 2	08 S		~ U		1.10		41		4	214	1225	9 031		15020							
		ST		90		1221		413		49	0.0	LGLO			15020							
1 2	2 7	OP 5		01		1271		39		36	- 11	1242	2 03		15036							
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IF LATRIDS OF AMARDEN STATION TIME ORIGINATOR'S OSETA MAL	
DE LATITUDE LONGITUDE SO SQUARE (GMT) YEAR CRUISS STATION TO DEPTH WAVE WEAR COOK	NODC
VID 1/10 10 1 MO DAY HR. VID NO. NUMBER BOTTON S'MPL'S DR. HOT HE STA	STATION NUMBER
14 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0013
WATER WIND BARD ARETEMP C NO.	
COLOR TEAMS DIE OF METER DRY WET COOD DEFINS OBSERVATIONS	
2c S1s 27J 157 12c 6 14	
INCA CAST CALD DEPTH ON T 'C 5 '/. SIGMA-T SHOWCY VOLUME \$ 0.0 SOUND 0.0 M// POP TOTAL-P NON NON STOR-	c.
\$ 101 VELOCITY Pg - 01/1 P	
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C C I	440-	0 14	4052 N	140 43	0 - 24	13: 19:	65 D22 01	3	4045	24	5 4	X6	6 4			0013
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ESSINGA TIME 0 R 1/10	NO.	CARD TYPE	DEFTH (m)	rt	s -/	SIG MA =	SPECIFIC VOLU		SOUND	O2 ml/l	PO 4=P	101AL-1	NO ₂ -N	NO3-N	51 O4-\$1	ρН
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		5 T i)	0050	1557	45 4 2	2555	001:08		15111							
133		0 - 5	1.00	1000	30707	1.50	001500.		15111							
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133		HH S	01.01	1504	3549.	2574	0013424	0130	15104							
		STI	01.75	1404	35-3	207 -	JU13057	01-4	15104							
		STO	0150	1475	3587	2652	0012754		15094							
133		in S	31° J	1475	13F71	2452	0012131	0225	15065							
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133		2 H S	10.03	1397	35742	26.13	0011 423	0259	1505+							
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133		UMS	0301	1267	35/5-	20-9	001.342	040 ,	15054							
133		02.5	1055-	10-4	15353	2711			15054							
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132		", - S	0.00	0-75	3517:	72.	000901	0017	1-9-1							
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133		HRS	105.01	0723	15017	7.40	00017.	0731	143-9							
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133		n is	10-12	0+77	304	2771	12000	0.083	14001							
		STID	1000	0477	3495	2771	0.135.03		14005							
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		5.1	1300	0393	24-3	2770	333-757	1038	14072							
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Woods Hole Oceanographic Institution

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